The Mining Journal COMMERCIAL GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 687 .-- Vol. XVIII.

LONDON, SATURDAY, OCTOBER 21, 1848.

PRICE 6D.

Stannaries of Cornwall-In the Vice-Warden's Court.

WHEREAS the VICE-WARDEN did, by an ORDER, or DECREE, made in this cause, and bearing date the 18th day of August last, order and Decree that a SALE be made of the PARTS, or SHARES, and INTEREST of he defendant in SOUTH ROSKEAR MINE, in the parish of CAMBORNE, within the aid Stanmaries, under the direction of the Registrar of this Court, and that the proceeds of such sale should be applied by the said Registrar in the manner directed by the said

Order or Decree.

Notice is hereby given, that, pursuant to the said DECREE, a PUBLIC AUCTION Notice is hereby given, that, pursuant to the said DECREE, a PUBLIC AUCTION will be HOLDEN, at ANDREW'S HOTEL, REDRUTH, on Thursday, the 2d day of November next, at Two o'cleck in the afternoon, for SELLING, in such lote as shall be then and there determined on, TEN (116ths) PARTS, or SHARES, of and in the said mine, and the LIKE PARTS, or SHARES, of and in the ORES, HALVANS, MACHINERY and MATERIALS, and OTHER REFECTS upon and belonging to the said mine. For further information, application may be made to Mr. Stokes, solicitor, Truro.

Dated Registrar's Office, Truro, Oct. 18, 1848.

POWERFUL STEAM-ENGINE, TWO WATER-WHEELS, AND MINE MATERIALS, FOR POSITIVE SALE.

M. R. F. A. DAVIS WIll SELL, BY AUCTION, on Tuesday, the 3lat day of October, 1848, at Twelve o'clock at noon, at WHEAL MARTHA HINE, at LUCKITT, in STOKECLIMSLAND, the under-mentioned

the 31st day of October, 1848, at Twelve o'clock at nooh, at WHEAL MARTHA HINE, at LUCKITT, in STOKECLINISLAD, the under-mentioned

MATERIALS AND MACHINERY OF THE SAID MINE.

Comprising—14 9-feet 11-inch pumps, 3 9-feet 9-inch difto, 1 3-feet 9-inch difto, 2 9-feet 10-inch working barrels, 1 10-inch door-plece, 1 14-inch pumper, 90-feet 10-inch working barrels, 1 10-inch door-plece, 1 14-inch pumper, 90-fee and case, stuffing-box and gland brass bushed, 1 9-inch plunger-pole, 10t of chain, 40 fathoms 15 rods, pullies and stands, 2 balance-boxs, with bearings and brasses, 4 sweep rots with caps, double and single checks, staples and glands of different sizes, 10t of hammered and crown fron-plates and caps, whim sheaves, windlass, 3 winze kibbles, 1 21-inch iron-rod, beam, beales, and weights, 2 7-inch bend pipes, 1 30-inch and 1 40-inch smith's bellows, about 3 cwis. of powder, several brass bottoms, tot of ladders, smith's horse, vice, pick moulds, smith's crane, a quantity of rod boits and burs, pump rings, &c., miners tools, door hinges, new and old iron, miners and smiths' chests, barrows, &c., water barrels, shorel hitis, seves, leather, &c., a large quantity of timber, composing several houses and ends, carpenters' benches, saw-pit frames, &c., &c.
TWO WATER-WHEELS, one 40 feet diameter, 4 feet breast, and one 30 feet diameter, 3 feet breast—both having cast-iron rings, sockets, and cylinder ends, and in exceltent condition.

Also, a very powerful STEAM-ENGINE (nearly new), on the combined principle of Mesers. Harvey, and Co., from the drawings of Mr. William West, with 60 and 32-inch cylinder, equal to 14-inch proper, with a boiler, 9 tons.

Refreshments punctucally at Eleven o'clock.

County Fire and Provident Life Omes, West-tweet, Tavistock, Oct. 11, 1848.

LINTSHIRE.—TO BE SOLD, BY AUCTION, on Thursday, the 26th day of October next, at Three o'clock in the afternoon, at the Ship in FilmT, in the county of Flint (unless in the meantime disposed of by private treaty, of which due notice will be given), subject to conditions to be then and there produced, all those FREEHOLD LEAD and ALKALI WORKS, strated at Flint, aforesaid. The LEAD WORKS contain smelting furnaces, slag hearths, refineries, crushing mills, red lead over, with grinding sparsatus for eight overs, &c., and one of the finest rolling-mills in the kingdom, nearly new, with width of rolls of 9 ft. 2 in.; three steam-engines stand on the promises, which have also the advantages of water-power, by means of a uservoir, supplied by a large stream of water, working two wheels.

The ALKALI WORKS consist of clead chambers, furnaces, vats and pans, &c., complete, and are adapted for the manufacture of 30 tons of sods ash per week.

The whole permises, which are freshold of inheritance, embrace shout 8 acres of land, and stand on one of the deepest points of the River Dee, where vessels of large size can lie in asfety; and, by means of a wharf and cruns, can be laden and unladen with the present accellity. LINTSHIRE.—TO BE SOLD, BY AUCTION, on Thurs-

at of capital.

he foregoing premises formed the well-known and long-catabilahed works of the late of George Reskell and Co.—late deaths of proprietors have rendered it necessary to a the same disposed of.

good house, with spacious offices, stands on the premises.

or all further particulars, or to treat, apply to Geo. Potts Roskell, Esq., Stockyn, ywell, Finishire; Mr. Williamson, solicitor, Holywell; or to Mr. Wm. Williamson, sidor, Holywell.—Holywell, Sept., 1848.

INTSHIRE—HOLYWELL AND GREENFIELD.—
TO BE LET, OR SOLD, the extensive PREMINES known as the GREENFIELD TROWNES, situate on the banks of the RIVER DEE, about one mile from Holywell, and close to the station on the Chester and Holyhead Railway.
These premises are freshold, and the valuable buildings, farnaces, offices, &c., have been rected within the last six years, in the best possible manner; a small outlay will, therefore, only be required to place them in working order for smolting any description of one or they may be readily converted into any manufactory, where extensive premises are required to carry on the business.

The Chester and Holyhead Railway runs through the property, and there is, in sufficient on the premises, with crane, and every convenience for loading and disharging vessels of large burthen with the greatest possible facility.

Coat is most plentiful in the neighbourhood.

For particulars, tarms, &c., apply to Mr. John Langhorne, Halkin, near Holywell; or harry Surman, Esq., 11, New-square, Eugebra Inn, London.

VAUXHALL FOUNDRY, LIVERPOOL—TO CLOSE
A PARTNERSHIP.—TO BE SOLD, the whole of that valuable PROPERTY,
known as the VAUXHALL FOUNDRY, VAUXHALL-ROAD, LIVERPOOL, consisting of upwards of 5500 yards of freeshold, and 3000 yards of leasehold, land for year, at
a low ground rent), with all the VALUABLE WORKSHOPS, MACHINERY, TOOLS
MODELS. &c. &c.

MODELS, &c. &c.

The PREMISES are all of the most substantial and convenient description, and the AcHINERY and TOOLS are of the most approved construction, adapted to the manuscurs of the largest description of steam-engines, and every variety of machinery. The valuable STOCK of MODELS have been all made within the last 20 years, and omariae all those regulatic for the carrying on an extensive business.

To any parties of capital, this will be found a singularly desirable opportunity, as the orks are in full operation—the reputation of the place established, and the business onnections of the highest class.

For darker particulars, apply to Messre, Laces, Myers, Rigge, and Roscoe, solicitors, iverpool.—If not sold by private treaty, the whole will be offered by public anction in a month of April, 1849, of Saich due notice will be given.

Liverpool, Oct. 19, 1849.

ALUABLE MINING PROPERTY.—TO BE SOLD, BY TENDER, in one lot, with Eat Louisa Copper Mine, situated in St. STE-HENS, near St. Austell, CORNWALL, with the MACHINERY and MATERIALS becausing to the same, which are in excellent condition, and afford an opportunity of workag, at a trifling cost, an exceedingly promising mine. The engine-shaft has been such a state of the same, which are not at this level, and is about 12 feet wide, very regular, outposed of flookan and quartz, spotted with rich copper ore, and has been pronounced by several experienced miners a very promising speculation—the machinery being a unlockent power to take it down full 30 fathoms deeper.

Tenders will be received not later than six o'clock in the evening of Tuasday, the 31st ust, addressed to the purser, at the New Inn., Torpoint: 20 per cent. of the purchase-new will be expected to be paid immediately on the tender being accepted, and the relatinger on or before the 14th of November. TALUABLE MINING PROPERTY.—TO BE SOLD, BY

Copthall Chambers, London; Capt. John Dale, St. Stephens, near St. Austeil; or to Capt J. Hitchens, Great Rough Tor Consols, Callington, who has recently inspected the mine.

J. Hitchens, Great Hough Tor Consols, Callington, who has recently inspected the mine.

IMPORTANT SALE of a valuable 70-inch cylinder ENGINE and MINING MATERIALS, with such INTEREST as the present proprietors may have in the SETTS of WHEAL CUBITIS and WHEAL ABRAHAM, situate in the parish of CROWAN, in the county of CORNWALL, which is OFFERED FOR SALE, BY PRIVATE CONITACT, in consequence of the inability of some large shareholder; is alwance the calls upon the shares held by them.

The MACHINEEY has only recently been purchased, and is most efficient, the shorts newly timbered, and a comparatively small outlay will suffee to open the acknowledged rich or ground—a more desirable investment is seldem offered to the public. Should the purchaser wish it, several of the present adventurers will readily unite with him in working the mine affectually.

Tenders for the entire mine, or for the engine and machinery alone, will be received groupsid) by Mr. George A. Jacob, Basinghall-chambers, Basinghall-street, London, until the 30th day of October instant.

For viewing the mine and machinery, application to be made to Mr. G. A. Jacobs, as above; Messra Hodge and Hockins, solicitors, Trure; or Mr. J. G. Plomer, solicitor, Helston.—The proprietors will not be bound to accept the highest tender.

Basinghall-chambers, Basinghall-street, London october 12, 1848.

OR SALE, BY PRIVATE CONTRACT, a capital 40-inch cylinder STEAM-ERGINE, made by West, nearly new, and in perfect condition, an accellent 28-inch cylinder STEAM-ENGINE, in good condition, with 8-ton boiler.

Also, a CAPSTAN, with oak axie.

Deputy-Governor, and Court of Assistants of the MINES ROYAL COPPER COMPANY give notice, that in consequence of the RETIREMENT of their SECRETARY and
MANAGER, they are prepared to ELECT a GENTLEMAN to FILL the VACANOY.
It is essential that any candidate for the appointment should be of active business habits,
have a facility in correspondence, a complete acquaintrance with accounts and office
routine, and be possessed generally of an accurate knowledge of mercantile affairs, more
especially of the copper trade. A liberal salary will be allowed. Security will be required. Written applications, with testimonals, must be sent on or before the 7th day
of November next, addressed "To the Governor" (marked private), Mines Royal Copper
Company, Dowgate.

A SSAYING, REFINING, &c.—A PERSON, 25 years agent to a large smelting firm, who perfectly understands assaying, refluing, general business, and accounts, would be glad to be EMPLOYED in any MINING, REFINING, or OTHER ESTABLISHMENT, at home or abroad; ar to be JOINED by a YOUNG MAN, with about \$600 or \$100, to ESTABLISH an ASSAY OFFICE, &c., in LONDON, Apply (by letter) to "Y." 102, Compton-passage, Clerkenwell.

A SSAYING AND ANALYSIS.—Mr. MITCHELL begs to inform the MANAGERS, &c., of MINES, SMELTING-WORKS, and MANUFACTORIES, that he still continues to CONDUCT ASSAYS and ANALYSES of all PRODUCTS, metallurgical and manufacturing, at his LABORATORY,

irgical and manufacturing, at his LABORATORY,
23, HAWLEY-ROAD, KENTISH TOWN, LONDON,
s communications are to be forwarded.—Instruction in all branches of

NOTICE TO GAS COMPANIES, —J. B. STEARS, ENGINEER, after many years practice in the CONSTRUCTION and MANAGEMENT of GAS-WORKS in the United Kingdom, as well as on the continent, having so far improved the mode of construction and management of these works, as to render them a source of certain gain; and aware that there exists in England a number of small works, which, although useful to the localities in which they are established, produce little on no profits to the proprietors.—J. B. S. proposes to such companies to FARM their WORKS, for a stipulated number of years, at a fixed annual sum, generally considerably more than the proprietary now actually receive, and at the same time releasing them from all the trouble of administration, whilst his plan will ensure to the consumpts pure and brilliant gas.

HENGISTBURY IRON MINE.—Mr. J. E. HOLLOWAY
begs to INFORM the IRONMASTERS of WALES and the MORTHERN COURTES, that, in consequence of the great demand for his SUPERIOR ORE, he has formed a RAILWAY, and made other arrangements, whereby he is enabled to exceed to RDERS with GREATER FACILITY than heretofore, and at the low price of 30. 56, per ton of 22 owts, which includes the freight. The Hengistbury iron ore yields 33 per cent.; it is raised from the shore, and is, in consequence, particularly clean. It melis at a low degree of heat, works very mile, gives out lime, and the metal runs from the farmace as freely as water. In every instance it has received unqualified approbation.

STEAM-ENGINE.—TO BE SOLD, a HIGH-PRES-SURE STEAM-ENGINE, 18-horse power—adapted for winding and pumping— 18 inches cylinder, 3 feet stroke; fiy-wheel, 18 feet diameter, with valves, &c.—made by one of the first engine-makers in England.

Further particulars may be obtained, and the engine seen, by applications to John Graham, Rushes Colliery, near Carlow, or Tolerton, in the Queen's County; of William Brophy, Esq., solicitor, Commercial-buildings, Dublin; or of Joseph Hedley, Esq., C.E., 29, Bucklersbury, London.

COAL.—TO BE SOLD, OR LET, a valuable COAL MINE the property of Sir Thomas G. Hesketh, Bart., situate about five miles from the important manufacturing town of BLACKBURN, in the township of Great Harwood, in the county of Lancaster. The mine has been recently proved, and found, at 77 yard from the surface, to be 5 feet in thickness, and of excellent quality. It is commonly called, or known by the name of, the UPPER MOUNTAIN MINE, and extends orgabout 1000 statute acres, which will be divided into suitable lots.

A section of the burings may be sent.

A section of the burings may be sent.

Sirk; or to Mr. Whittle, coal viewer, Charnock Richard, Chorley—to either of whon proposals may be sent.

CONTRACT, with immediate possession, the MORRISTON FOUNDRY, and the PLANT, MACHLINERY, and TENANTS FIXTURES, and MANAGER'S MOSES, GARDEN, and about FIVE ACRES of LAND, belonging thereto—situate about three miles from SWANSEA, on the Swansea Canal, and within a mile of the lines of the South Wales and Swansea Valley Railways, which are now in course of construction.

The WORKSHOPS are commodious, and well started with all requisite machinery, S., for immediately resuming business, and the premises are admirably adapted for the financiacture of railway engines and carriages.

For further particulars, and to treat, apply to Messrs, Llewellya and Randall, solici-

acture of railway engines and carriages.

for further perticulars, and to treat, apply to Messrs. Llewellyn and R:

5, Neath; Mr. W. P. Struvé, C.E., Swansea; or Mr. Robert Clover, Man

DEMBROKESHIRE.—STEAM-ENGINES, PUMPS, AND DEMBROKESHIKE.—SIEAM-ENGINES, PUMFS, AND WAGGONS.—FOR SALE, BY PRIVATE CONTRACT, 140-inch cylinder, double acting, CONDENSING, ENGINE, with two boilers (about 6 tons each), 54 fms. of pumps, 19-inch plungor-pole and case, working berrel, and clackpieces; also pumprods, capetan, shear legs, and all necessary fittings to make the lift complete; 1 20-inch WINDING-ENGINE, with boiler, two drum-barrels, 300 to 350 fathoms of chain, and pip nalleys, friction rollers, &c.; also 12 IRON, and 4 WOODEN, RAILWAY WAGGONS,—calculated to carry upwards of 30 cwts. each.

The engines are situated at the Broadmoor Colliery, within four miles of the Sanfacer-froy flarbour, and are fit for immediate use; and never having been worked to their full power, are in excellent condition, and are only new offered for sale in consequence of the working being discontinued.

COLOMSTS.—FOR SALE, a LOCOMOTIVE TUBULAR ENGINE, with deers, with PATENT GEARING, for working a continuous line of wire-rope for age and ploughing, and fitted for threating, pumping, mill work, &e.,—one of be seen at work at Mr. Tyler's farm, half-a-mile north, of the Stratford Stern Counties line.—Apply to Mr. John T. Osborn, 10, King-street, St. James's as A. Denoon and Co., Adam's-court, Old Broad-street, City.

WHEAL WALTER MINING COMPANY
4. King-street, Cheapside, London, Oct. 18, 1848.
At a Meeting of shareholders, held at No. 4. King-street, Cheapside, on Wednesday the 18th Inst. (adjourned from the 27th September last),

HENRY SMITH, Esq., in the chair,

It was moved by Henry Smith, Esq., and seconded by J. J. Hays, Esq.—

That the minutes of last meeting be confirmed.

Mr. Walter Weekes not attending personally, and no further accounts being presented.

It was moved by J. D. Poole, Esq., seconded by W. Snell, Esq.—

That the purser, Mr. Walter Weekes, has not produced the amended accounts, which e promised three weeks ago.

Moved by J. J. Hays.

Moved by J. J. Hays, Esq., seconded by A. Hays, Esq.—

is balance-sheet.

Moved by J. D. Poole, Esq., and seconded by J. J. Hays, Esq.

That the following advanturers form the committee to receive the above
D. Poole, Esq., H. Smith, Esq., and W. Snell, Esq.

s does not attend, and that the books be sent to Mr. English immediately.

Moved by H. Smith, Esq., and seconded by J. D. Poole, Esq.—
meeting stand adjourned to this day fortnight (1st Nov.), to be held at the
JAMES CROFTS, Honorary Secretary.

ANDREW SMITH begs to inform the Mining, Railway, and Shipping interests, that he as obtained a PATENT for an IMPROVED METHOD of GALVANISING IRON, proceing a much superior article at a considerable saving in cost—the improved process for
ivanising wire rope, adding only £10 per ton instead of £20, under the ordinary process. The rope is extensively used in damp situations, for mining and railway purses, and for ships' standing rigging.

DATENTEES AND OTHERS REQUIRING ADVER-TISEMENTS in the PROVINCIAL or LONDON PAPERS, PUNOTUAL ATTENTION through the AGENCY of S. DEACON, 3 where all the papers are filed from every country, and the Times, with newspapers, for upwards of 100 years past. Any of the provincial paper of the provincial paper of the provincial paper.

MINING IN AUSTRALIA.—A GENTLEMAN, who has resided many years in Australia, and has had some years experience in mining, OFFERS his SERVICES to a COMPANY in EXPLORING an UNINHABITED TRACT of COUNTRY in that COLONY, of immense area, abounding in MINERAL, and distant only 140 miles from coal, to which there is secess by water. The Advertiser feels condents, from his own observations, to be able to the condents from his own observations. fident, from his own observations, to be able to show that res be realised by the first explorers of this region.

MINERAL PROPERTIES AND ESTATES.—
M. Mr. HENRY ENGLISH begs to Intimate to the PROPEETORS of MINES and
MINERAL PROPERTIES, as also to ADVENTURERS in MINES, that REPORTS and
SURVEYS, with PLANS and SECTIONS, Ulustrative theired, will be FURNISHED by
him, being aided by agents in the various mining localities, of undoubted practical knowlodge and experience. Information or advice rendered on all points touching mining
pursuits, which Mr. H. English feels himself competent to afford, as the result of his
personal investigation and inquiries during several years of his connection with the several mining districts.—Estimates given for exploring or proving mining ground, as also
the machinery requisite, with drawings.

OFFICES—No. 26, FLEET-STREET, LONDON.

VALUABLE AND SAFE INVESTMENTS.—Mr. H. B. RYE

O TO	11, OLD BROAD-STREET,	CILL	men .		VID10250	DIVID	end p. sha
	Mines.		No. of		minal ;		aonum a
	East Wheal Rose					 10 40	£200
	Wheal Seton						
	North Pool						
	South Wheal Francis						30.~
	Wheal Margaret						30
	Devon Great Consols South Wheal Basset						30
	Treviskey and Barrier						16
	Trehane					*****	6

MINING OFFICES—ESTABLISHED FIVE YEARS.—
THOMAS P. THOMAS begs to inform his friends and the public, that he has
REMOVED from No. 18, Threadneedle-street, to No. 3, GEORGE-YARD, LOMBARD:
STREET, LONDON (tate Messrs, Phillips and Tiplady's).
N.B.—Dealer in English and Foreign Funds, Mining, Railway, Gas, and other share.

MR. R. TREDINNICK, THREE KING'S COURT,

MR. C. S. RICHARDSON, CIVIL ENGINEER, LAND MINING SURVEYOR, S, WHITEFRIARS-STREET, LONDON.

WILSON & FRASER, 2, WELLINGTON - BUILDINGS LIVERPOOL, and 13, EXCHANGE-PLACE, GLASGOW, bavealways on Sap PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

MONEY.—MESSRS. KILLICK & CO. (late Wanstaller, make immediate by Strategy, and the public, they make immediate by Avances, to any amount, on the deposit of English and Foreign Railway Shares, Serip, and Debenhures, upon exceedingly savantageous terms they also Buy and SELL every description of STOUR and MINING SHARES, a much less commission than usually charged.—6, Bank Chambers, opposite Bank of England.

ALVANISED IRON COMPANY'S DISSOLUTION

ACT, 1848.—Notice is hereby given, that the FIRST GENERAL MEETING of
the shareholders of this company, under the provisions of the Galvanised Iron Company's
Dissolution Act, 1849, and the usual Half-yearly General Meeting of the shareholders in
this company, according to the provisions of the Deed of Settlement, will be HELDat the
London Tavern, Bishopsgate-sitest, on Wodnesday, the 25th inst., at One o'clock priempany, according to the provisions of the Deed of Settlement, will be HELD at the a Tavern, Bishopsgate-sirest, on Wednesday, the 25th inst., at One o'clock pre-in the afternoon.

By order,

ansibu-house-place, London, Oct. 11, 1848.

S. VINCENT, Secretary

LYNVI IRON COMPANY.—Notice is hereby given, that a GENERAL MEETING of the shareholders of this company will be HELD at 21 orgate-street, on Wednesday, the 25th inst., at One o'clock processly, for the purpose receiving the accounts for the air months ending 30th June last, for the election of

ISTER DALE IRON COMPANY.—Notice is hereby given, that an EXTRACRDINARY GENERAL MEETING of the proprietors of shares in this company will be HELD at the office of the company, No. 10, Old Jewry Chambers, in the city of London, on Wodnesday, the 28th day of October inst., at One of clock in the afternoon precisely, for the purpose of sametioning and adopting the resolutions passed at the extraordinary general meeting of shareholders of the said company, held on the 26th day of June last, and of considering the properley of dissolving the said company, and of winding up the affairs thereof, and for other general purposes relating to the affairs of the said company,—Oct. 9, 1848.

F. W. EMERSON, Clerk.

ATIONAL BRAZILIAN MINING ASSOCIATION,
26, Throgmorton street, Oct. 16, 1848.—UNMARKED SHARES.—The directors
declare, that all the UNMARKED SHARES of this association, upon which the INSTALMENTS have NOT BEEN PAID, are FORESTIED, by the abandonment of the holders.

By order, JOHN KEMPSTON, Jun., Secretary

[From the London Gassite, Tuesday, Oct. 17, 1848.]

ASCADE MINING COMPANY.—Notice is hereby given that, in pursuance of a requisition, duly signed, a SPECIAL GENERAL METALOR of the shareholders will be HELD at the Queen's Arms Tavern, Chappede, on local day, the 23d of October inst., at Twe're o'clook precisely, for the election of a pursuand also for considering the expediency of closing the share list, and immediately raisin funds for paying off the debt upon the mines and resuming operations.

Oct. 17, 1848.

THOS. HENRY TAURTON, Secretary

GADAIR MINING COMPANY.—Notice is hereby that a SPECIAL GENERAL MEETING of the shareholders will be HI Thursday, the 26th October inst., at the Queen's Arms Tavern, Chespelde, at ly.—Oct. 17, 1848

DENNANT AND CRAIGWEN CONSOLIDATED LEAD r toe amangument, dreet, where prospectuses, and every information, WILLIAM W. MANSELL, Pr

MINING COMPANY.—Notice is hereby given, that the directors are re RECEIVE TENDERS for the WORKING, either on ribute or by contract, of a w DEPOSIT of RON PYRITES, wholly thee from areanc, and also of UMBER, finest description and colour.—Specimens may be seen at the offices, 57, Threads trees: or at the whart, 332, High-street, Wapping. Oct. 9, 1848. WILLIAM W. MANSELL, Pu

NOTICE IS HEREBY GIVEN, that the OFFICES of the With the Crigwen Lead Mines Company—and also of the Tin VALE MINING COPANY, are REMOVED to 57, THREADNEEDLE-STREET, CITY, where is it request all communications may in future be addressed.

WILLIAM W. MANSELL, Purpose of the Control of the Con

TAMAR SILVER-LEAD MINING COMPANY—N is hereby given, that the ANNUAL GENERAL MEETING of the decay of this company will be HELD at 44, Finabury-square, on Thursday, the 26th occider near, at Two o'clock precisely.—London, Sept. 98, 1848.

PROPOSED REMEDY FOR THE PARTENT DEPRESSON IN RAILWAYS.—A large body of influential railway proprietors at Liverpool and other places are getting up a memorial to the directors of the Leaden and North-Western and Midland Railways, siggestive of the best means of restoring confidence and remedying the present depression. It is using circulated and signed on the Exchange, and strongly arges on the attention of directories the following important points:—That the capital accounts shall be closed as soon as possible; that all outstanding accounts of the legal advisers shall be examined and paid off; that the engineering expenses shall be placed on the most economical footing; that the expenses at present being incurred in enlarging stations be limited, and that no such further expenses be incurred without the sanction of a majority of the shareholders; also that no further engagements, whether contracts for new lines, the billisfor which have been sanctioned by Parliament, and contracts for works not let be entered into without such sanction. That the rates of fare and tolls of all kinds, not productive of a fair remuneration to the shareholders for the outlay and risks, be raised at once, and where Parliament has limited the powers of raising such rates and tolls, that application be made next session to enable the directors to raise them to a remuneration to the shareholders for the outlay and risks, be raised at once, and where Parliament has timited the powers of raising such rates and tolls, that application be raduced as far as practicable; that the express trains, except one per day at an increased rate of fare, be taken off; and that first, second, and third-class trains be run separately, at a speed in proportion to the amount of fare paid. That the boards of directors be proposed by the proprietors, and not chosen by the board.

South Devon Railways, was fitted in on Saturday last, and the timber of particular probably be removed in the sateries of the castern end of the arch, in the studies of a higher gr

for some time past.

A LIFE GUARDSMAN (ONE OF THE HEROES OF WATERLOO) CURED OF RUSHMATISM BY HOLLOWAY'S OBSTRUCT AND PILLS.—Mr. Thomas Brunton, landlord of the Waterloo Tavein, Cetaham, Yorkshire, was afficied for masy months with rheimatism and rheumatic gout, his legs were dreadfully painful, and disfigured with colours of every hue, frightful to behold. For 10 weeks he was wholly unable to wait, the treatment he received from several medical men not only failing to do him any good, but eaving him, in fact, in a considerable worse condition. At this functure Holloway's pills and outsment were resorted to, and by their sole means he has been restored to health and strength.—Sold by all druggists, and at Professor Holloway's establishment, 244. Strand, London.

PRINCIPLE TO NO. 37, BERFORD-SQUARE, LONDON.

DR. LAMERY ON THE SECRET INFIRMITIES OF YOUTH AND MATURITY, With 40 coloured engravings on ated.

Just published, and may be had in French or English, in a scaled civelope, 2s. 6d.; or post-free, from the author, for forty-two starps.

CELF-PRESERVATION: A Medical Treatise, on the Physiology

post-free, from the author, for forty-two stances.

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THE SILENT FRIEND: a medical work, on the infirmities and decay of the generative system, from excessive intulgence, infection, and the inordinate use of mercury, with resnarks on marriage, and the means of obviating general control of the contro

RAILWAY PROPERTY—DEPRECIATION AND IMPROVEMENT. The serious, and even alarming depreciation in the value of railway property which has for some time past been gradually, but surely, deve-loping itself, more particularly in that of the large and more important loping itself, more particularly in that of the large and more important companies, is arousing the attention of all parties in the most distant manner connected, with the railway interest, and has already produced the publication of many theories to account for the proximate cause, and recommending methods for counteracting the injurious effects, and the restablishment of confidence. Among these is one by a "Traveller in Many Landa," just published by Effingham Wilson, of the Royal Exchange, under the title of Railway Rescue, in which the author takes a bold and somewhat original view of the question, and clearly shows the causes of much of the present discomfiture in railway bodies, deprecates the attempts making to increase dividends by additional farce, and a decrease in the number of the trains, with many other absurd changes in the regulations of the lines which have been continually, and are still, taking place; people will travel as much as possible at their own convenience, and as cheaply as possible, and the consequent result is likely to be increase of horse trausit; and it is dangerous to practice on public patience and tempt to new modes of transit, until every means have been resorted to to diminish the expenses of the old. In the investigation into the causes of the enormous expenses in supuntil every means have been resorted to to diminish the expenses in sup-old. In the investigation into the causes of the enormous expenses in sup-porting the permanent way of railroads, he shows that it proceeds from a want of all due proportion between the rails and the bodies rolling over want of all due proportion between the rails and the bodies rolling over old. In the investigation into the causes of the enormous expenses in supporting the permanent way of railroads, he shows that it proceeds from a want of all due proportion between the rails and the bodies rolling over them. The periphery of a locomotive weighs 200 lbs. per yard; the rails, 80 lbs.; yet the former is of an arch form, supported by the spokes at intervals of \$1 in., while the rails form a straight beam supported at intervals of \$2 in., while the rails form a straight beam supported at intervals of \$1 k., with joints at every 15 ft. which invariably deflect beneath the passing load, and destroy the continuity of support. For a perfect railway, the rail should be of sufficient vertical depth to resist all deflection, and hard enough to resist lamellation; but to accomplish this it would be perhaps necessary to have recourse to iron, 200 lbs. per yard, of deep vertical section, with a surface of hard steel, \$3 in. wide, and \$\frac{3}{4}\$ in. in depth; but as the outlay of capital for such a structure would be quite out of all possibility to meet by remunerative returns, it will be necessary to "try back," and if the road cannot be suited to the wheel, the wheel must be suited to the road—for "permanent way" is a practical fact, as shareholders pockets can testify. The author says—"Having the fear of 'no dividends' before your eyes, you must turn to the practical maxim of the Manchester and Liver-pool directors of old, gathered from the experience of the road, and keep down your weights. Light horses for the high speeds, brewers horses for the drays, small trains and frequent, with small station-room, few police and porters, and fewer clerks, a slight increase of drivers and stokers, and a huge decrease of platelayers and a reduction in iron invoices, would do more for your dividends and the public accommodation than the present system of elephantine traction, with a yielding foothold—a power developed and wasted; for it must be obvious that if, after expending millions to secure good gradients, a de enemies of canals and highways, and the respective proprietors are constantly imbrited in a spirit of rivalry; while the alteration of trains and raising of fares, whereby numerous men in business are defeated of their object in taking country houses, will gradually drive all such persons away to the old coach roads, where regularity and certainty can be secared by competition. He forcibly alludes to the inconsistency of the present laws regulating railway property, particularly that by which companies are prohibited from building houses contiguous to their lines—a system which might be rendered extremely profitable; once established, the railway would, to an extent, become a secondary consideration, and cheap fares and numerous trains would be an infallible result. Railway companies would soon lay out farms and build factories, and let out power and supply water, and gas, and manure, and open mines and quarties, and teach landed proprietors to go and do likewise, when once this stambling-block was removed. They contain, dormant, the elements of prosperity far greater than their most sanguine projectors ever dreamed of in their calculation of tolls and fares. He advises directors to impress upon proprietors the desirability of holding on to their shares; let none sell but the absolutely needly, and all others bide the good time which must infallibily come; to regard not market quotations, but look to intrinsic value; and to beselge the Legislature early and late, until justice is done to the railway interest. The writer observes, and we think with much reasor—" We give charters to water companies, and gas companies, and manure companies, and canal companies, and manure companies, and canal companies spearately, and yet prevent a company from uniting companies was considered.

canal companies, and railway companies, and banking companies, and building companies separately, and yet prevent a company from uniting together to work out conjointly all these things urgently for better advantage. Give them but free scope, and, in addition to all these, they will become provision purveyors to the community far more economical than we have yet beheld. The mile linear would come to represent the mile square—the toll trustee would become the landed proprietor—the long-stage proprietor would become the inn-keeper, and the short-stager would grow into a householder. Gas would be made in the original coal-pits, and every spring of pure water would be converted to man's uses. Under such a system all the stations would become market towns and bazaars. The shareholders would be safer for ever, for it would be impossible to have great fluctuations in the value of property so secured."

The author then clearly describes the difference between the speculator in railway shares and the investor, with the calculations and estimates which the latter should invariably make previous to purchasing. The pamphlet contains many very valuable hints; and, as a whole, should be read by every railway shareholder.

SAFETT FUSE FOR INDICATING LOW WATER IN STEAM-BOILERS.—A very ingenious invention, for indicating the lowness of water in steamboilers, has been lately putented by Mr. A. Stillman, of the Novelty Iron-Works, in New York—trials of which having been made, have proved in every way satisfactory. One or more tabes are passed through the upper surface of the boiler, reaching down to the top of the flues, or fire tubes; they are about 1 in. internal diameter, and fastened securely down by a screw-nut. At the bottom end the orifice is much contracted, so that any fluid entering can easily ascend in the larger portion. On this small orifice is placed a cap of soft metal, fusible at a low temperature, and the tube being screwed tight down, compresses this fusible cap against the top of the flue. Now, as long as this cap remains at 212°, the temperature of the boiling water, it will remain in its place; but, should the supply of water fail, and the surface in the boiler get below the cap, the flue gets red hot, and the fusible metal melting off the small tube, the steam instantly rushes out, and gives notice to the attendant engineer. The boiler is then rectified as to its supply, the pipes stopped with a ping of wood, and the first opportunity, when the steam is down, a new cap is screwed on.

New Propellier for Steam Vessels.—A patent has been taken out by Mr. H. Vint, of Colchester, for propolling ahips and other vessels by paddle-wheels, inclosed in close chambers, formed by casings and curved guards, the whole of the propelling apparatus being placed out of sight believe the water line. About one-half of ench paddle, measuring from the axis to the circumference, acts freely on the current of water in which the vessel floats, whilst the remaining parts revolve in a cylindrical chamber, occupied by dead water, the chamber being open only in the under part, but having a valve at the top for the accape of air. The guards which extend along the sides taper off towards both head and stern, and are constructed to present as SATETY FUSE FOR INDICATING LOW WATER IN STEAM-BOILERS,

RAILWAY COMPENSATION.—The sheriff's jury decided a case in Glasgow, last week, which shows the danger of depending on claims for compensation before a coart of law. A Mr. Dixon claimed of the Pollock and Goven Company 10,486% 10s., for a crossing, and the jury decided he was entitled to softing?

DROAY OF STONE.—We regret to say, that the stone-work of the French church, in St. Martin's-le-grand; the New Hall, Lincoln's lim; and the New Houses of Parliament, is in a state of rapid decomposition. What have the architects and builders been about?—Trewman's Exeter Flying Post.

THE NEW RAILWAY BRIDGE ACROSS THE TWEED.

THE NEW RAILWAY BRIDGE ACROSS THE TWEED.

The opening of this stupendous structure, for the convenience of public trafficcannot but be regarded as an event of the highest importance in the railway
world. Whether it is considered in a merely commercial point of view, or regarded as a proof of the advancing skill and science of the age, it is equally
calculated to excite our wonder and admiration. Temporary though it is, does
it not excite unwonted ideas when we see the work of a few months produce
what the continued labour of 20 years, two or three centuries age, hardly sufficed to realise? Another point which lends an additional interest to the opening of this great bridge, is the fact that it is the last connecting link in that
mighty chain of communication extending from the metropolis of the south to
that of the north. London and Edinburgh, the capitals of two nations for
centuries at enuity, now shake hands with each other. They are now united
by a bond of iron which, the longer they flourish, shall render their connection
more indissoluble. Not less interesting are the historical associations connected
with the situation of the bridge, but upon these we shall not at present enter.

The bridge and viaduet were formally inspected on Tuesday, by Captain
Symonds, Government Inspector of Railways. He arrived at the Tweedmouth
station, by special train from Newcastle, about half-past two o'clock, accompanied by Mr. Harrison, engineer of the line. Shortly afterwards an engine,
with a first and second, class carriage attached, containing these gentlemen,
Mr. Bruce, resident engineer, several of the railway officials, and some ladies,
proceeded at a slow pace from the station along the immense viadued and the
temporary wooden bridge to the North British Railway station, where a large
assemblage had been some time waiting in anticipation of Captain Symonds,
arrival. On the approach of the train, three hearty cheers were sent forth
accompanied by the booming of three pieces of artility planted about the cou

OPENING OF THE FIRST RAILWAY IN SPAIN.—An experimental trip was ade on the 8th inst., on the railway from Bercelona to Mataro, by the director and their friends. The convoy included about 300 persons. The journey and their friends. made on the 8th inst., on the railway from Bercelona to Mataro, by the d tars and their friends. The convoy included about 300 persons. The journal barcelona to Mataro was made in an hour, exclusive of stoppages, the journey back in 50 minutes—the distance is five leagues The Barce is very proud of Catalonia being first in Spain to possess a railway. The was to be opened to the public on the 15th.

Was to be opened to the public on the 15th.

ATHE RAILWAY INTEREST.—As there appears to be a good deal of misapprehension and misstatement aftoat with reference to the object of the meetings of the three great railway companies, and their consequent negociations, we have endeavoured to ascertain the real facts, and we have reason to believe that they are as follows:—The distinct object of the conference is not to increase fares or arrange trains, but it is for effecting a complete union of capital of the three great companies—the North-Western, the South-Western, and the Great Western, and the conversion of the three into one great company, under one controlling body, leaving the working details with the respective boards. The delegates consist of five directors from each, company, breaded by their respective chairmen. They have generally met twice a week at Mr. Glyn's house, adjoining the bank. We understand that some general principles of anon have been affirmed, and the details left to the consideration of the solicitors of the respective companies, who will have to consider of the proper notices to Parliament; for, of course, nothing can be done without the consent of the propiertors of all the companies and legislative sanction. We have heard that some obstacles have arisen from the discussion introduced by that vexted question—the broad gauge ind narrow gauge interests—but more particularly from the difficulty of ascertaining the relative values of the great interests which it is proposed should be united. We have however, good reason to hope that these difficulties will be surmounted.—Morning Chronicle.

The Rahway System Suggester.—A striking suggestion of the extended.

particularly from the difficulty of ascertaining the relative values of the great interests which it is proposed should be united. We have, however, good reason to hope that these difficulties will be surmounted.—Morning Chronicle.

The Rahway System Suggested.—A striking suggestion of the extension of railway communication into a system, as connecting lines are now called, will be found in Sir R. Phillips's Morning Walk from London to Ken, published in 1813. On reaching the Surrey iron railway, at Wandsworth, Sir Richard records:—"I found renewed delight in witnessing at the place the economy of horse labour on the Iron railway; yet a heavy sigh escaped me as I thought of the inconceivable millions which have been spent about Malta, four or five of which might have been the means of extending double lines of iron railway from London to Edinburgh, Glasgow, Holyhead, Milford, Falmouth, Yarmouth, Dover, and Portsmouth! A reward of a single thousand would have supplied coaches and other vehicles, of various degrees of speed, with the best tackle for readily turning out; and we might, ere this, have witnessed our mail coaches running at the rate of 140 miles an hour, drawn by a single horse, or impelled 15 miles an hour by Blenkinsop's eteam engine. Such would have been a legitimate motive for overstepping the inceme of a nation; and the completion of so great and useful a work would have afforded rational ground for public triumph in general jubilees? The writer of these penetrative remarks lived until 1840; so that he had the gratification of witnessing a triumph akin to his long-cherished hope.—Munchester Examère.

DEATH OF THOMAS GRAY, THE RAILWAY Pronege."—During the last week Thomas Gray, whose friends claim for him the titles of "Author of the railway system" and the railway is Pioneer," died at Exaser, in the fist year of his age. Though not an engineer, he was contemporary with the late George Stephenson. His name was brought into rote by the publication, in 1820, of a work entitled, "Observations on a Gen

with no response, and it is said that he died broken-hearted.

GEOLOGICAL DISCOVERY.—A correspondent of the Fife Herald states that

a section of limestone rock has been lately laid open by the cutting of the
Edinburgh and Northern Railway, at the Newburgh station, which belongs to
the Cornstone of the old red sandstone formation. The face exposed is about
100 feet in length, by upwards of 20 feet in thickness, and very distinctly stratfied. The beeds are broken near the centre, which causes their edges to still
down and dip in opposite directions, inclining on one side at an angle of 25towards the north-east, and on the other approaching to nearly a vertical position towards the north-west. What adds to the geological importance of the
discovery, is the fact of the gray sandsone, or Carmylie fessillaterous pavement
stone, being found in the immediate vicinity of the calear-cous deposit. The
representative of the Cornstone in England, it is well known, is antremely rich
in fossils, particularly of the genus Cephalaspis, while not a fragmient has a
yet been detected in any of its numerous localities in Scottand. The colour of
the limestone is that of a dark flinty gray, with immunerable white thread-like
visins of carbonate of lime, both vertical and longitudinal, and which cause the
rock to split up into thin bands of larger and smaller rhombolida masses. The
deposit is subcrystalline, of an extremely hard and cherty textute; it is not
nodular or componed, as in so many other places, but of a close, uniform, hardgeneous structure."

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MADIGAN AND HADDAN'S PATENT RAILWAY WHEELS. [Patentee, Richard Madigan, of Haverstock Hill, C.E., and John Cope Haddan, of Lin-oln's Inn-fields, C.E. Patent dated April 13, 1848. Specification enrolled Oct. 14, 1848.] The improvement of Messrs. Madigan and Haddan relate to three kinds of

wheels-to those formed from discs of wrought-iron-to those constructed with wrought-iren spokes and naves-and to such as are manufactured of wrought and cast-iron, or of cast-iron alone.

and cast-iron, or of cast-iron alone.

The Wrought-Iron Disc Where Is.—1. The patentees state, that they prefer to employ sheets of wrought-iron in which the grain of the metal does not run all in one direction, but rapidly from the centre of the disc, in order to diminish the risk of breakage, and that they effect this object by piling, or faggoting, the metal of which the sheet is composed, crosswise, and rolling it in different directions, until it is of the desired thickness. From this sheet of wrought-iron they punch or cut out a circular disc of larger diameter than the intended wheel, sufficient to allow of the formation of a run, or felloe, to support the tire.

port the tire.

2. To bend the circumference of this disc at right angles, so as to form the felloe, the patentees subject the heated disc to the action of a series of suitably formed dies, after which the tire is attached to the felloe by shrinking, bolting, and riveting in the ordinary manner.

3. Or they forge, upset, or otherwise thicken, the circumference of the disc to form the felloe.

S. Or they forge, upset, or otherwise thicken, the circumference of the disc to form the felloe.

4. Or, they fit the circumference of the disc into and against a ribbed tire or between a double-ribbed tire, after the manner patented by George Cottam, December 5, 1837. The disc may in this case be straight or curved, or bent at an angle, and the tire made to correspond, so that the two may fit exactly The tire and felloe are then welded and riveted together in the ordinary manner.

5. The nave is formed by making the disc, in the first instance, of the thickness of the nave, and then diminishing the whole of it in thickness by hammering, except the central part, which is to form the nave; or they form a recess in the centre of the disc on one side, which produces a corresponding projection on the other side, and weld on bosses to form the nave—one into the recess, and the other to the projection. A third method given for forming the nave, consists in boring a hole in the wrought-iron disc, of larger diameter than that which is to serve for the axle, and cutting the disc radially for a short distance, then bending these radial portions of the disc in alternate directions, and, finally, casting the nave thereon in suitable moulds. It is also proposed to cast the nave upon one or both sides of the uncut disc, and to employ Perlbach's patent method of producing a perfect union between the surfaces of the wrought and cast-iron.†

WHEELS WITH WROUGHT-IBON SPOKES AND NAVES.—1. The spokes are proposed to be welled alternately.—

WHEELS WITH WROUGHT-IRON SPOKES AND NAVES.—1. The spokes are proposed to be welded alternately—first to one side of the wrought-iron nave and then to the other, and afterwards welded to the T-pieces, which form the inner rim, or felloe, for the support of the tire; these pieces being first bent into an arc of a circle. These spokes may also be of an L form, or double L form, and welded to the nave and together, so as to form also the felloe, as in the case of the T spoke.

2. Holes are to be cut in the nave, into which the spokes are welded, or the nave is to be formed of pieces of sheet-iron, and these welded to the inner ends of the spokes.

3. The spokes, nave, and felloe, are to be formed onto facilled berging of the WHEELS WITH WROUGHT-IRON SPOKES AND NAVES .- 1. The spokes are

and of the spokes.

3. The spokes, nave, and felloe, are to be formed out of rolled bar-iron of the L or double L form. In this case, the bars are first rolled out straight with projections at their ends, and bent into the angular form, when, on being arranged radially, the inner ends of the bars, with the projections thereon, form the nave, and the remaining portions of the bars, the spokes, and inner rim, or felloe. The parts forming the nave are afterwards welded together, and, in some cases, a boss is welded on to one or both sides of the nave.

4. The felloes of any of these wheels may be welded, united, or bolted, or otherwise secured to a ribbed, or double-ribbed tire.

WEOUGHT-IEON ARM OR CAST-IRON WHERES.—1. The cast-iron is proposed to be upon a disc in portable moulds, and Perlbach's process to be employed to produce a union between the two metals. The tire is to be afterwards put on after the ordinary manner.

2. The body of the wheel is to be formed of cast-iron entirely, by running the iron into the space encircled by the tire, and causing it to adhere to the inside surface thereof.—Mechanics' Magazine.

FORSYTH'S PATENT RAILWAY WHEELS. X

[Patentee, T. Forsyth, New North-road, engineer. Patent dated April 14, 1848. Splitcation enrolled Oct. 14, 1848.]

Mr. Forsyth's improvements in the manufacture of railway wheels consist in rolling them, by suitable machinery, out of circular discs of wrought-iron, containing the requisite quantity of metal, but of half the diameter and double the

rolling them, by suitable machinery, out of circular discs of wrought-iron, containing the requisite quantity of metal, but of half the diameter and double the thickness of the intended wheel; or, of rolling them out of thin circular discs of wrought-iron, to which curved pieces of wrought-iron have been welded, in order to obtain the required degree of thickness at the felloe and nave portions of the wheel. In the latter case the circular disc of wrought-iron is of nearly the same diameter as that of the intended wheel.

The discs of wrought-iron are first heated in furnaces near which the rolling machine is placed, and into which they are successively lifted by cranes. This machine consists of a framework which carries a vertical spindle passing through the centre, and thereby supporting the disc. Opposite to, and at a convenient distance from, that portion of the framework carrying the spindle, is an upright shaft which gives rotary motion to two axles, mounted one above another, and inclined, the top one downwards, and the lower one upwards, so that the rolling cones which they carry at their other extremities are in close proximity. The purpose of these cones, between which part of the circular disc is caused to pass, is to roll that portion of the wheel which is between the felloe and the nave, and the distance between them may be regulated at pleasure by means of a toothed pinion and rack. Behind the verticle spindle are attached to the framework which carries it two axles, which are inclined towards one another, and furnished with rolling cones of smaller size than the other two, and placed one above the other, below the nave of the wheel. The office of these smaller cones is to make the nave surfaces of the disc smooth and uniform. Around the disc, and fixed in the framework are placed, at convenient distances therefrom, several guide pulleys having indentations in their peripheries which serve to give the desired form to the tire and flange of the wheel. The pressure of these guide pulleys against the

ADVOCACY OF JEWISH FREEDOM.—Mr. William Thornborrow, whose persevering exertions in the cause of civil and religious liberty secured the election of Mr. Alexander Raphael and Mr. David Salomons as sheriffs of the City of London, in which they were severally successful, has just published a pamphlet, giving an entire history of the difficulties their supporters had to encounter, and the opposition to be overcome. These details are in the form of an address to the members of the Jewish persuasion, his object being to make known to the antipodes the liberal spirit of the City of London, believing that it requires only British feeling to be wafted to the remotest corners of the civilized world, to awaken emulation, and to ensure a favourable consideration of that friendship amongst men, which is of such vast importance to so large a body of their fellowmen as the Jews. The pamphlet is amusing and instructive, giving a convincing proof of what perseverance will effect, even in the most desperate and unhoped-for cases; and Mr. William Thornborrow is eminently entitled to the thanks of the entire body of the Hebrew tribe. Nor have they been ungrateful; a number of influential Jews having expressed their anxiety to award a lasting testimonial of esteem and gratitude to their advocate, a preliminary meeting was held on the 28th of August last, when a committee was formed, for the purpose of printing his adress, and to receive subscriptions for a testimonial, commensurate with his untiring zeal and his successful labours in behalf of Jewish freedom. Mr. Thornborrow has communicated to them his intention to apply the proceeds arising from the Jewish subscription to the establishment of an asylum for the reception of "diots and lunaries of all denominations," founded on a principle differing from any hitherto erected in this country.

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STAMMERING AND DEFECTS OF SPEECH.—Those persons—and there are, anfortunately, many of both sexes, and in all ranks of life—who are afflicted with stammering and defective enunciation of the voice, will be gratified by the intelligence, that a method of removing this impediment is practised by bir. Hunt, of Regent-street, which, without the use of the knife, or the torture of surgical operations, is perfectly efficacious; and adapted to every case in which there is no organic, or positive, defect of conformation. Cases requiring an operation are exceedingly rare, and most, fatal consequences have, in too many instances, been produced by an indiscriminate use of instruments. The gautleman above named has adapted the results of a long experience, extensive practice, and matured judgment, to the removal of the defects under which so many labour, and he has discovered a means, simple yet certain, of affording relief. There is no quackery, no ostentation, and no mystery in his method. It has been appreciated by hundreds, and deserves to be appreciated by hundreds more.

Mr. Cottam's patent, dated Dec. 5, 1837, was "for improvements in the construction of wheels for railway and other carriages." His invention consists in a mode of affixing the fron spokes to their rims, or felloes, by welding their outer ends to a fiange, or between fianges, previously formed on the inner periphery of the felloe. After this, the tire is abrunk on as usual. The patentee also describes, but does not claim, an apparatus for welding these wheels.

† For specification of Pertbach's invention, see Mining, Journal, Jan. 29, 1848.

† This method is identical with that described under the last, 2d, 3d, and 4th heads of Mr. Henson's specification; but as both patents are dated on the same day, the right of Mesars. Madigan and Haddan to the invention is just as good as Mr. Henson's, and Mr. Henson's agood as there. The patent laws have made no provision for a case of conflicting title like this; and yet it is by no means one of rare occurrence.

ON THE MINES OF CINNABAR, UPPER CALIFORNIA.

The mine of New Almaden is situated a few miles from the coast, about idway between San Francisco and Monterey, and in one of the ridges of Sierra Azul Mountain. The mouth of the mine is a few yards down from the summit of the highest hill that has yet been found to contain quicksilver, and is about 1200 ft. above the neighbouring plain, and not much more above the ocean. This hill extends longitudinally in a northwesterly direction, decreasing in height; and in various parts of it, for several miles, traces of the ore have been found, and some openings have been made which promise to be valuable. This range of hills consists of a variety of rocks, which I have not yet had an opportunity properly to study. The prevailing one is a greenish talcose rock, which seems to embrace the bod of ore at the New Almaden Mine, both above and below. The ore is interspersed through a yellow ochreous matrix, which forms a bed 42 ft, in thickness, dipping north-westerly, at an angle of about 45°. The richest ore is at a present found in the upper part of the bed, the poorer ores being taken from the lower portion. of Sierra Azul Mountain. The mouth of the mine is a few yards down

bed 42 ft. in thickness, dipping north-westerly, at an angle of about 45°. The richest ore is at present found in the upper part of the bed, the poorer ores being taken from the lower portion.

This mine, known to the aborigines from time immemorial as a cave of red earth, from which they obtain paint for their bodies, was first discovered to contain quicksilver about four years since, during experiments made by some Mexicans to smelt the ore for the purpose of obtaining gold, which they supposed it to contain. About two years ago it fell into the hands of Barron, Forbes, and Co., who sent on hands, tools, and funds, to commence working it. Unfortunately the vessel fell into the hands of the United States forces, and was confiscated; the operations of the mine were of course delayed till the arrival of Mr. Forbes himself, a few months since, with miners, tools, and whatever things he was able to procure in were of course delayed till the arrival of Mr. Forbes himself, a few months since, with miners, tools, and whatever things he was able to procure in Mexico, to enable him to make a fair experiment on the capabilities of the mine. The great trouble was to obtain suitable apparatus for extracting the ore. At length four potash kettles were found, which were set in a furnace of adobies, with condensers of mason-work immediately adjacent—a wretched apparatus indeed for managing so subtle a thing as mercurial vapour. While I was at the mine the daily mode of working was —a wretched apparatus indeed for managing so subtle a thing as mercurial vapour. While I was at the mine the daily mode of working was to fill these pots in the morning with 1600 lbs. (400 lbs. to each pot) of the ores of average quality, broken in lumps of the size of apples, put on the covers and lute them with a layer of sand. The fires were then kept up till near night, when the furnaces were allowed to cool gradually. The next morning the condensers were opened, and the metal dipped up; which usually amounted to from 200 lbs. to 300 lbs. for the four pots. This was a much less per centage than the assay indicated, and it was obvious that a large portion of metal was lost. The upper parts of the pots and condensers were found to be generally coated with a crust of sulphuret of mercury. Mr. Forbes wished to devise some way of extracting the metal without mixing lime with the ore in the roasting, but was unsuccessful. At length a kiln of lime, which occurs in the immediate vicinity, was burned; and I am informed that, mingled with this, the ore yielded a vartly larger per centage of metal. In the last three weeks about 10,000 lbs. of metal have been extracted with the same apparatus, being a yield of over 50 per cent. Whether the ores were picked or not, I cannot say, but presume they were. Between 15,000 lbs. and 20,000 lbs. have been extracted in about two months—only six miners having been employed in digging the ore, and the hands of the establishment, all told, miners, furnace-men, wood-choppers, &c., numbering only a score. The mine is probably yielding a net profit of \$100,000 per annum, with its ployed in digging the ore, and the hands of the establishment, an tool, miners, furnace-men, wood-choppers, &c., numbering only a score. The mine is probably yielding a net profit of \$100,000 per annum, with its present crude apparatus. With suitable furnaces and iron cylinders or retorts, the mine would easily yield \$1,000,000, and upwards. Mr. Forbes sails to Europe shortly for the necessary apparatus. The bed has as yet been followed but a few hundred feet, but the ores grew more and more rich and abundant. rich and abundant.

rich and abundant.

The other mines opened in the vicinity have not yet been sufficiently developed to decide upon their character. Ore has been found in 15 or 20 other places within a few miles around, and within a few days, in hills that do not seem to belong to the same range with that which contains the mine already described. Some ores of silver have also been recently discovered in this region; but I have had no opportunity of procuring any genuine specimens as yet; and whether silver mines worth the working will be found is, at least, problematical.

There are traces of coal in the country, but nothing of value has yet been discovered. Gold has been found recently on the Sacramento, near Sutter's Fort. It occurs in small masses in the sands of a new mill-race,

Stater's Fort. It occurs in small masses in the sands of a new mill-race, and is said to promise well.—Rev. C. S. Lyman: Chemical Gazette.

Mines of Guadalanal.—In the Mining Journal of the 30th September, we published some interesting particulars respecting these celebrated mines: the following additional information has been received, bearing date Seville, 30th Sept.:—"The English ship sent from Cornwall, with machinery, pumps, and other necessary apparatus for working the silver mines of Guadalcanal, arrived at this port on the 23d, after a rapid and prosperous passage. The arrival excited a good deal of interest, and no doubt is any longer entertained of the reality of the enterprise, or of its prospects of success. The influence of this feeling has enabled the superintending engineer to overcome all the difficulties and delays that the Spanish Government is apt to throw in the way of the introduction of foreign machinery. The vessel had discharged her cargo in three days, and all the tools and machinery were placed on waggons by the contractors, who pledged themselves to have them at the mines in twelve days. Thus, by the 10th or 11th of October, the steam-engine and pumps destined to work the mines of Guadalcanal would be on the spot, and it is hoped that the works will have been commenced early in November."

the mines of Guadalcanal would be on the spot, and it is hoped that the works will have been commenced early in November."

Ancient Mining on Lake Superfor.—The last Lake Superior News gives a further account of the discovery of evidences of the working of the copper mines of that region by a people now extinct, a notice of which was published some time since. It says the indication which led to the discovery is a sunker trench upon the line of vein, which being drifted into, disclosed a mass of native copper lying in this vein, estimated to weigh about 7 tons. The remains of large timbers were found, by which this had evidently been propped, and beneath it were several cart-loads of ashes and cluders, showing that the ments used in the mining operations were found, consisting of stone hammers, a chisel, and a gad of copper. The pertect state of the point of the latter seems to indicate that a process of hardening the metal was known, for the hammer end was most battered. With the copper of this were some large particles of silver. The chisel is ingeniously constructed, so as to admit a handle. No iron instrument was discovered. That the mining operations were conducted to a greater extent than is practised by any existing tribe of Indians is apparent from the fact, that the trench sunk upon the vein extends more than a mile in length. The accumulation of earth in the trench concealed the depth of the workings, except in the small part reopened; but here the depth was found to be 24 ft., and the width 8 ft. Similar trenches exast in the neighbourhood, which were traced for several miles. Not the least interesting part of the discovery is the evidence of the great antiquity of the workings. Large trees were growing upon the earth that had accumulated in the diggings—one of which, directly over the large mass of copper, proved to be 400 years old! Beneath it were trunks of trees that had previously decayed or faller in, and the width of the interest of the continuation of the discovery of America, a race existed

ACCIDENTS.

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Middleton.—J. Fitton was so severely turned by an explosion of fire-damp at Mr. T. Knowles's Spath Bottoms Colliery, that he died in a few days.

Brierley Hill.—As J. Davis was lowering some furnace cinder upon a waggon with a crane, he losed the handle of the windlass, which ran round with great violence, flew off, and struck him with great power on the lower part of his abdomen. He staggered and felt to the ground, but recovered himself in a quarter of an hour and walked home, but he died on the following evening.

Sugnaza.—J. Bowen, while working in Messrs. James and Ambrey's pit, at Cwmllynfell, faving undermined a quantity of coal, a "silp" took place, when a mass of coal fell upon him, by which he sustained a compound fracture of the left leg, and great laceration of the abdomen, through which the bowels pretruded, from which injuries he died.

Prior's Lee Works, near Shreezebury.—H. Smith was severely injured by a fall of roof—indeed, he was so braised and crushed, that while being carried home animation ceased.—Another accident happened, at the same works, to W. Jones, who received such injuries that little hope is entertained of his recovery.

GOLD DEPOSIT IN THE QUEBEC DISTRICT, CANADA

In the article following will be found some further remarks on the discovery of an immense deposit of gold, extending over an extensive district in the valley of the Sacremento River, in Upper California. The information has been principally gleaned from the American press, which, although proverbial for the most wild exaggerations in such details, has, we have reason to believe, on this occasion, some grounds for the extraordinary statements. However, we can receive, with a greater degree of confidence, the following more moderate announcement of the discovery of gold in Canada—hopes raised on which will, probably, not be subject to the reaction and disappointment which will, doubtess, yet be felt in California:—

probably, not be subject to the reaction and disappointment which will, doubtless, yet be felt in California:—

"We have received the report of J. Cunningham, Esq., on the mineralogical character of the Seigniory of Rigaud-Vaudreuil, in the district of Quebec, Lower Canada. Mr. Cunningham, we believe, was for some years a resident in one of the southern States, and had an opportunity of examining the gold region to which he refers. In comparing the gold deposits in the Carolinas and Virginia with those of the Seigniory of Rigaud-Vaudreuil, he says:—"I can safely assert that the deposit on your Seigniory will bear comparison with many of the richest deposits of the south. I have exammed many of them, and ascertained carefully the results of the washings, and although our operations were conducted upon a very limited scale, being, as it were, simply an essay, I have no doubt, when the mine is regularly opened and a system adopted, that the average proceeds of a year's labour will fully equal those of the Carolinas and Virginia. The gold found is remarkably large and easily collected, and there will, consequently, be no loss by the process of washing. The extent of the deposit is the next important consideration, the limits of which are not yet determined; if the gold exists in the gravel of the country, it will be found where the characteristic formations extend, but if it has originated from some local cause, having an immediate bearing upon the rocks in the vicinity of the stream, the deposit will probably be confined to the country embraced within the drainage of its tributaries. I have found it in variable quantities in the valley of the stream, commencing at its outlet, and ascending two miles; and, although our principal operations were confined to a very small section, I feel confident the same successful results will obtain wherever the deposit is tried in that distance.

"Traces of a silver mine are also said to have been discovered in the countre

connident the same successin results will obtain wherever the deposit is treed in that distance."

"Traces of a silver mine are also said to have been discovered in the counties of St. Maurice Berthier, and Leinster, north of the St. Lawrence, in the district of Three Rivers and Montreal. A gentleman was engaged in examining them, and there appears to be no doubt that they contain silver ore. The large quantity of copper obtained from Lake Superior this year has been noticed already under this head, and we have the following additional memoranda, indicative of the attention directed to mining pursuits:—The Lake Huron Silver and Copper Mining Company have given notice that all shares on which the instalments or calls made by the company have not been paid, shall be sold by auction on the 18th Oct. Notices are given of application next session for the incorporation of two new mining companies; one to be called the Root River Mining Company, Lake Huron, and the other the Sault Ste. Marie Company."

MINING IN AMERICA-THE NEW EL DORADA.

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Gold.—From California we hear of the discovery of an extensive gold region; a gold-hunting mania is raging through the territory, and everybody is forsaking his ordinary occupation to search for the precious metal. Even the whalers had suspended operations; the captains permitting their seamen to go to the gold country, on condition that every ounce of gold should be sold to themselves for \$10. Towns were evacuated, and the two newspapers published in the territory had been suspended, the compositors having gone with the inhabitants to the attractive spot. Mr. Larkin, U.S., navy agent at Monterey, thus writes under date July 1:—"I have visited the 'Placer,' or gold region of California, and found it all it had been represented to me. My anticipations were fully realised. The part I visited was the south fork of the River American, which joins the Sacremento at Sutter's Fort, or two miles from it. This river has its north and south forks, branching more than 20 miles from Fort Sutter. On these two forks there are over 1000 people digging and washing for gold. On Bear Creek and Hulo Creek, branches of Feather River, many are now beginning to work. It is supposed that the banks and bottoms of all these small streams contain vast quantities of gold, and that the valleys between them are rich with the same metal. The people are now working at many places; some are 80 miles from others. The place I visited was about a league in extent, on this were about 50 tents; many have not even this covering.

* * There certainly must this day week be at work on the different Placers several hundreds of Americans and others, who are cleaning I oz. of gold a day. I have this week seen in Monterry a Californian, who shows \$400 of gold from the labour of one week; much of it was the size of wheat. I myself weighed one piece from his bag, and found the weight an even ounce. Flour at the Placers is scarce, at \$16 per 100 lbs. At almost this price it must continue, as people are forsaking their fi

nearly all the hotels are shut up. In two weeks Monterey will be nearly without inhabitants.

COPPER.—The sanguine hopes of immediate success and profit which have been indalged in by the speculators in copper mines in Lake Superior, are considerably damped by reports from those regions. During the past year little progress has been made—not for want of encouragement, but of funds. Several locations have been entirely abandoned; the intense pressure for money on the sea-board rendering it impossible for their owners to continue enterprises in which the prospect of return was so remote, while the outlay was so imminent and burthensome. The offering for sale of the mineral lands, at high prices, and only in enormous tracts, has co-operated to precipitate this course in many cases. The companies that are still able to continue their operations are working moderately, or only holding on until they can effect new arrangements, or otherwise increase their resources, while a few are steadily extending this work, and repelling the idea of speculation, are completing their plans and estimates, and perfecting their arrangements. The Cliff Mine is almost the only exception to the general course of things. Its proprietors being men of business and capital, it has been opened with energy and science; it has already shipped 750 tons of native copper this season, and will make it up 1000 tons if navigation continues open until the 1st November. This will give a net profit of not less than \$125,000 on the year's business—equal to the entire investment. The copper of these mines is represented as superior in quality to any other; some silver is diffused through it, but the quantity is not sufficient to increase materially the value of the mine, except as it increases the worth of the copper generally. For bells, buttons, or anything repuiring either clearness of tone, or abiding brilliancy of colour, this copper is worth considerably more than the ordinary copper of the weight of 10 tons are frequently dislodged, and even a bul

According to the Preussiche Zeitung, metallurgical industry has progressed considerably during the preceding year. There were no less, at the end of 1847, than 50 smelting establishments at work, which produced 470,000 quintals of metal, of the value of 2,000,000 Prussian dollars. This quantity, however, is much inferior to the production of the provinces of Silesias, the Rhine, and Westphalia, in which considerable progress has been made during the last year, but the different results have not yet been published.

but the different results have not yet been published.

THE BORROWDALE LEAD MINE.—As it is from the mine of Borrowdale that the principal supply of black lead for pencils is obtained, some description of this mine cannot fail to be interesting. The mine is situated about nine miles from Keswick, near the head of the valley of Borrowdale, on the steep side of a mountain. The entrance to the mine is through a level or adit, which was driven into the hill in 1798, and at the length of 220 yards communicates with an older working. Through this principal level the water passes off, and the produce and rubbish are brought out in small waggons, upon a tramroad or railway. Over the mouth of this adit a house is built, in which the workmen are undressed and searched, as they pass through it on leaving their work; this precaution being deemed necessary from the value of the mineral and the numerous robberies which were formerly committed. The depredations were frequently of so bold a character, that an Act of Parliament was absolutely required, by which "an unlawful entering of any mine, or sead hole of word, or black cawke, commonly called black lead," &c. (25 George II., cap. 10), is made felony.—Art Journal.

DIED,—On the 14th inst., Captain Caleb Thomas, aged 89 years, manager of

DIED.—On the 14th inst., Captain Caleb Thomas, aged 89 years, manager of South Wheal Frances Mine. He was a man highly respected, and is deeply lamented by a large circle of triands.

PREVENTION OF SMOKE.—A patent has been taken out by Messrs. T. J. Knowles and W. Fillis, for several improved arrangements of fire-grates for domestic purposes, among which is specified a furnace for ateam-boilers, for preventing smoke. The fire-box is a shell placed in the centre of the water, and having flues surrounding it, immediately under the free, communicating its heat, and meeting near the bottom of the boiler, from whence the flue communicates with the chumney. In the lateral and descending flues four transverse bridges are placed, each thickly perforated, through which the heat and flame pass; by that means they become intensely heated, causing any opaque smoke which may arise to become ignited and consumed in its pumage to the chimney.

The Compendium of British Mining.

ORIGINALLY COMPILED AND PUBLISHED IN 1843. REVISED, CORRECTED, AND ENLARGED FOR THE "MINING JOURNAL," BY J. Y. WATSON, ESQ., F.G.S.

No. IV.—THE SYSTEM OF CORNISH MINING.

The management of most of the Cornish mines is in the hands of a committee, consisting generally of the largest shareholders in the county, or as they are termed, in-adventurers; but, in the majority of mines, a gentleman chosen from the adventurers, and called the purser, has the gentieman chosen from the adventurers, and called the purser, has the entire management, keeping the accounts, and paying all moneys. At the meetings of the adventurers, which, under the Cost-book System, ought to be held on the mines every two months, the purser presents a statement of the accounts, to be audited. The conducting of mines, on what is termed the "Cost-book Principle," is peculiar to the county of Cornwall, where it has for ages been recognised by the Stannary Courts, and is in itself extremely simple. There has, however, been of late much discussion upon its privileges and powers, and which has tended more to mystify than to explain. All companies for working mines, formed and carried on upon the principle of the cost-book, are especially exempt from the operations its privileges and powers, and which has tended more to mystify than to explain. All companies for working mines, formed and carried on upon the principle of the cost-book, are especially exempt from the operations of the Joint Stock Registration Act. The simple principle is this:—On the formation of a company a cost-book is produced; on the first page is given the name of the mine, with a form something like the following:—"We, the undersigned, do hereby consent and agree to become share-holders, adventurers, and partners in the mine, situate in the parish of , in the county of , in the shares and proportions here-under, the entirety of the said mine being divided into shares, and the mine conducted on the usual Cost-book System." Under this the names of the shareholders are entered, with the number of shares taken by each adventurer, and he signs it opposite his name. The rules and regulations for the government of the company are then made, and entered in like manner. These generally refer to the privileges and powers of the "cost-book," provide for their being carried out, and for the general management of the company. All debts and liabilities incurred in working the mine should be paid every month, and a meeting of shareholders called every two months, to audit the accounts, examine vouchers, &c. If there had been also had be made to pay them off, and to provide money for the next two months' working. If any profits, they should, so far as may appear prudent, he divided. By this arrangement, which is the best feature in the cost-book, every shareholder knows his liability, and can end it at any two-monthly meeting, it being part of the system (and should be provided for in the rules), that at any two-monthly meeting a shareholder and, consequently, not liable for any debts contracted after his so signing off. For instance, say

It at any two-monthly meeting, it being part of the system (and should be provided for in the rules), that at any two-monthly meeting a shareholder may pay his proportion of debts due to that date, and "sign off" his name from the cost-book, as no longer a shareholder, and, consequently, not liable for any debts contracted after his so signing off. For instance, say A B has the in Wheal ——, and the debts amount to 640l, he pays his 10l. down, signs off, and in 12 months is entitled to his proportion of the value of the materials, machinery, &c., at the time of his signing off. The cost-book should be kept by the purser, who must call meetings, make calls, pay and receive money. It is, however, competent for the share-holders to delegate two or three of their body to act as a finance committee, and in London companies this plan is generally adopted. Under the cost-book, if a party wishes to dispose of all, or any part of his interest, a written notice to the purser, signed by the seller, and accepted by the buyer, subject to the rules and regulations of the cost-book, is sufficient; this is pasted in the book, and constitutes the transfer.

Next to the purser of a mine is the head captain or manager, who superintends the whole of the mine, and the general routine of the surface work; the underground captains seeing that the work is there conducted properly; the persons performing the work in the various parts of the mine may be divided into tributers, tutworkmen, and labourers.

Tributers receive a certain portion of the ore, or so much in the pound (as may be agreed upon), in the value of what they raise. Tutworkmen work by the piece, generally calculated by the fathom; in this way the shafts are sunk, adits and levels driven, and the labour usually performed in those parts of the mine which do not produce cros; the labourers are generally employed on the surface dressing ores, &c. and consist of men, boys, women, and girls. The population engaged in mining in Cornwall has been estimated total, 600. Lime dealer

stence from mining to 100,000.

The general features of a mining district have been graphically sketched by a talented writer—"To one unaccustomed to a mining country, the view from Carn Marth, which is a rocky emimence of 757 feet, is full of novelty. Over a surface, neither mountainous nor flat, but diversified from sea to sea by a constant series of low undulating hills and vales, the farmer and the miner seem to be occupying the country in something like the confusion of warfare. The situations of the Consolidated Mines, the Poldice Mine, &c., &c., are marked out by spots a mile in length, by half a mile in breadth, covered with what are termed 'the deads' of the mine—i.e., slaty poisonous rubbish, thrown up in rugged heaps, which, at a distance, give the place the appearance of an encampment of soldiers' tents. This lifeless mass follows the course of the main lode (which, as has been said, generally runs east and west); and from it, in different directions, minor branches of the same barren rubbish diverge through the fertile country, like the streams of lava from a volcano. The miner being obliged to have a shaft for air at every hundred yards, and the Stannary Laws allowing, him freely to pursue his game, his hidden path is commonly to be traced by a series of heaps of 'deads,' which rise up among the green fields, and among the grazing cattle, like the workings of a mole. Steam-engines and whims (large capstans worked by two or four horses) are scattered about; and in the neighbourhood of the old, as well as of the new, workings are sprinkled, one by one, a number of small whitewashed miners' cottages, which, being neither on a road, nor near a road, wear, to the eye of the stranger, the appearance of having been dropped down a-propos to nothing. Such, or not very dissimilar, is in most cases the superficial view of a country, the chief wealth of which is subterrancous. Early in the morning the scene becomes animated. From the scattered cottages, as far as the eye can reach, men, women, and children of galleries — one of which is 990 feet below the level of the ocean. As soon as they have all disappeared, a most remarkable stillness prevails—scarcely a human being is to be seen. The tall chimneys of the steamengines emit no smoke; and nothing is in motion but the great 'bobs' or levers of these gigantic machines, which, slowly rising and falling, exert their power, either to lift the water or produce from the mine, or to stamp the orest and in the tranquility of such a scene, it is curious to call to mind the busy occupations of the hidden thousands who are at work; to contrast the natural verdure of the country with the dead product of the mines; and to observe a few cattle ruminating on the surface of green sunny fields, while man is buried and toiling beneath them in darkness and seclusion. But it is necessary that we should now descend from the heights of Carn Marth, to take a nearer view of the mode of working the mine, and to give a skeleton plan of that simple operation."

A lode, as before stated, is a crack in the rock, bearing, in shape and dimensions, the character of the convulsion that formed its and it is in this irregular crevice that Nature has, most irregularly, deposited her mineral wealth; for the crack, or lode, is never filled with ore, but that is distributed and scattered in veins and bunches, the rest of the lode being made of quarts, mundic, and "deads." Under such circumstances, it is impossible to say beforehand where the riches of the lode exist; and,

therefore, if its general character and appearance seem to authorise the expense, the mine is commenced in the manner before explained.

The object of perpendicular shafts and horizontal galleries is not so much to get at the ores, which are directly procured from them, as to put the lode into a state capable of being worked by a number of men; in short, to convert it into what may now be termed a mine. In the Cornish mines, the sinking of the shafts, and the driving of the levels is paid by what is termed tutwork, or task work—that is, so much per fathom; and, in addition to this, the miners receive a small per centage of the ores, in order to induce them to keep these as separate as possible from the deads, which they would not do, unless it were thus made their interest. The lode, when divided as above described, is open to the inspection of all the labouring miners in the country; and, by a most admirable system, each mass or compartment is let, by public competition, for two months, to two or four miners, who may work it as they choose. These men undertake to break the ores, wheel them, raise them to the surface, or, as it is termed, to grass, and pay for the whole process of dressing the ores, which is bringing them to a state fit for market. The ores are sold every week by public auction, and the miner receives immediately the tribute, or per centage, for which he agreed to work, which varies from 6d. to 13s. in 1t., according to the richness, or poverty, of the ores produced. The owners of the for which he agreed to work, which varies from 6d. to 13s. in 1l., according to the richness, or poverty, of the ores produced. The owners of the mine, or, as they are termed, the adventurers, thus avoid the necessity of overlooking the detail of so many operations, and it is evidently the interest of the miner to make them gain as much as possible. Should the pitch, or compartment, turn out bad, the miner has a right, at any time, to abandon his bargain, by paying a fine of 20s. At the expiration of the lease, or whenever they may be abandoned, the pitches are anew put up to auction, and let for two more months; some may be getting richer, others poorer, as the work proceeds; and thus public competition practically determines, from time to time, the proper produce which the miner should receive. The different rectangular masses, or pitches, into which the lode is divided by the galleries and shafts, very seldom turn out to be of similar value; and they are, of course, worked exactly in proportion to their produce. In one compartment the whole of the ore is worked out; in another only a proportion will pay for working; while not a few turn out so value; and they are, of course, worked exactly in proposition due. In one compartment the whole of the ore is worked out; in another only a proportion will pay for working; while not a few turn out so poor that no one will undertake to work them at all. The pitches are, in most cases, taken by two miners, who relieve each other; and one often sees a father and son, who are in partnership, gradually find the lode turn out poorer and poorer, until they are at last compelled to pay their fine, and quit the ungrateful spot. The lottery in which the tributers engage abounds in blanks and prizes. Sometimes the lode gets suddenly rich, sometimes as suddenly poor, and occasionally a productive lode altogether vanishes, or, as the miners say, has taken a heave; by which they mean, that some convulsion of Nature has broken the lode, and removed it off—sometimes. 200 or 300 ft.—to the right or left. In order to determine where to find it, those well acquainted with the subject carefully observe the facture, or broken extremity of the lode, and, from its appearance, they can determine on which side, and in what direction, to search for the lost prize. Sometimes, again, a lode which is paying very well is, all of a sudprize. Sometimes, again, a lode which is paying very well is, all of a sudprize.

the facture, or broken extremity of the lode, and, from its appearance, they can determine on which side, and in what direction, to search for the lost prize. Sometimes, again, a lode which is paying very well is, all of a sudden, found to have taken horse, which means that it has split into two lodes, separated from each other by an unproductive mass, which the miners term a horse; and, although the aggregate of the two lodes frequently contains the same quantity of ore as the original single lode, yet as the expense of working is doubled, it often will not pay to work them; for in all mining operations it must be constantly remembered, that it is not the quantity, or even quality of the ores, that can induce a prudent man to work them, if the expenses, from any circumstances, should exceed the returns.

There is no light in a mine but that afforded by the candles of the workmen; while the universal presence of water soaking through the crevices of the gallery, and intermixing with the dust and rubbish, keep up a constant succession of dirty puddles, rendering it no very pleasant affair going underground. Each miner has a candle, which is stuck close by him against the wall of his gallery, by means of a piece of clay; and, besides those employed in extending the gallery, there are generally one or two boys wheeling the broken ore, &c., to the shaft. Each boy has a candle affixed to his wheelbarrow, by the universal subterranean candlestick—a piece of clay. The men relieve each other every six or eight hours, and thus keep on their work uninterruptedly, except on Sundays. Notwithstanding this incessant labour, the progress of the miner in excavating his gallery is, in general, very small—1, 2, or 3 ft. in a week, or a few inches daily, is often the whole amount of the united operations of 20 or 30 men. In loose lodes, and in killas districts, they cast more, but the lode is rarely so wide as the gallery, or level, so that it becomes necessary to cut away the solid rock on each side, which is often very hard, ev

In working by tribute, the miner naturally does all he can to enrich himself, but the system is so admirably balanced and arranged by long practice and experience, that it is very difficult for him to enrich himself, without also enriching the owners or adventurers. Still, however, there are modes by which he occasionally endeavours to defraud his employer. The miners will sometimes steal each other's ores. If they come to a very good lode, they will occasionally hide their ore under the rubbish, or deada, with the view of making the profit they are getting appear to be inconsiderable, and, of course, being able, at the end of their contract, to take on their pitch for another two months at an easy rate. They, perhaps, succeed in this; but when they go to reap the benefit of their fraud, they sometimes find that a brother miner, still more cunning than themselves, has discovered their hidden treasure, and has carried it off. The most usual mode of frand, however, is a combination between two tributers, one of whom is working very rich, and the other very poor cres. The tributer who is working poor ores has, perhaps, bargained that he is to receive 13s. out of every 20s. worth of ore; while his friend, who is working the rich ores, is to get only 1s. out of 20. In the dark chambers of the mine these two men secretly agree to exchange some of their ores, working the rich ores, is to get only 1s. out of 20. In the dark chambers of the mine these two men secretly agree to exchange some of their ores, and then to divide the gross profits, which are, of course, very large; for, by this arrangement, instead of 1s. they get 13s. out of 20 for a portion of the rich ores, while they lose but a trifle on a corresponding portion of the poor ores. There are a few other methods of defrauding the adventurers; but in the diamond cut diamond system of the Cornish mines a severe check upon all such tricks is established in the appointment of a number of excellent men, who are selected from among the working miners, to superintend all their operations; these men, having been brought up in the mines, are, of course, acquainted with the whole system. They have fixed salaries of about 80l. or 90l. a year, and are termed captains of the mines.

[To be continued in next week's Mining Journal.]

BUCKFAST MOOR TIN MINE. - This mine, divided into 1024 shares, and con ducted on the Cost-book System, is situate in the parish of Dean, Devonshire, on the borders of Dartmoor, extending east and west, on the course of the lodes, 900 fms., and, from north to south, 600 fms. The prospectus informs us that the present state of the surface gives undeniable evidence of the continuous workings of the ancient tinners, and quantities of stuff are found in their burrows which will pay for dressing. It appears that a company, formed 10 years ago, was broken up, from a disagreement with the agent; then the parties could not obtain a good and valid title, which circumstance suspended all working; it was at length settled that J. B. Yarde Buller, Esq., was the rightful owner, and from him the present promoters of the company have obtained a lease for 14 years, from Midsummer, 1848, at 1-18th dues. The engine-shaft is sunk 14 fms.; an adit level driven on the course of the lode 100 fms.—the lode tinny throughout, and 6 ft. big. It is proposed to sink the shaft to the 20 fm. level, a rich leader of tin having gone down near it. It is then proposed to cross-cut to a north parallel lode in the 10 fm. level, which lode is producing good stones of tin at only 4 fms. from surface. The tin is said to be of excellent quality, and free from all injurious alloy. It is now proposed to dispose of shares at 21 10s. each, 11. of which is to cover the expenses already incurred, and the remainder to be applied to the full development of the mine, estimated at 12001. Mr. John Kneebone, of Beeralston, reports that there are several tin lodes in the sett, which, in some places, have been opened on to a great extent by the ancient tinners, which, in his opinion, is a proof that they were productive; and he has no doubt, if the researches are extended below those workings, courses of tin will be found more than sufficient to pay for any trouble or expense; and there is a good supply of water running through the sett. Captain James Carpenter, of Wheal Anderton, reports that the lode the former party sunk the deepes ucted on the Cost-book System, is situate in the parish of Dean, Devoushire on the borders of Dartmoor, extending east and west, on the course of the lode

Mining Correspondence.

ENGLISH MINES.

BARRISTOWN.—Capt. T. Angove (Oct. 13) reports—The lode in the 16 fm. level end east is about 2ft. wide, producing about 5 cwts. of lead per fm. The flat-rod shaft is still sinking in broken ground, about 10 fms. under the 16 fm. level. The adit end is in a slide at present, although for the past week we have had a lode in it producing 1 ton of lead per fm. The pitches in the adit level continue to look well.—Oct. 16.—The adit level has got through the slide, and the lode is again very good.

BEDFORD UNITED.—Capt. James Phillips (Oct. 18) reports—At Wheal Marquis, the ground in the engine-shaft continues more favourable for sinking.

slide, and the lode is again very good.

BEDFORD UNITED.—Capt. James Phillips (Oct. 18) reports—At Wheal Marquis, the ground in the engine-shaft continues more favourable for sinking. The lode in the 80 fm. level east is from 2 to 3 ft. wide, producing good saving work; in Tiller's winze, in this level, the lode is 18 ln. wide, producing good stones of ore. We are still driving by the side of the lode in the 70 fm. level east; the pitches are turning out well. The produce of the ores sold in February was \$\frac{1}{2}\$, March \$1\frac{1}{2}\$, and April \$\frac{1}{2}\$, and \$\frac{1}{2}\$.

COMBLAWN.—Capt. J. Hosking (Oct. 10) reports—Relative to the furing workings, &c., at this mine, I beg to say that my predictions respecting the existence of a good lode in the 20 fm level will be verified about the middle of November. I would not say positively that we shall be in a position to make returns for several months, still I firmly believe that such will be the case, provided that no further increase of water takes place in cutting the main lode in the 20. From Capt. Penaluna's report, I should think that the shareholders would be in good spirits; and from the rich ore which we broke in the bottom of the 15 fm. level, I anticipate favourable results, and shall be greatly disappointed if the lodes are not found as I have before stated—good ones. I have again been surveying the water-course, and I find, that by taking the mills above the mine, we might easily erect a water-wheel, 40 ft. diameter and \$f\$. in breast. Such power as this would enable us to sink 30 fms, below the

CWM ERFIN.—Captain S. Nicholls (Oct. 14) reports—The 20 fm. level is driven 3 fms. west of engine-shaft, in which the lode is still unproductive; but by driving about 3 fms. more, according to the dip of the ore in the 10 fm. level, we shall get into some productive ore ground. The stopes in the 10 fm. level, west of engine-shaft, are much the same as last reported. We have not yet met with any lode in the cross-cut in the 10 fm. level, east of the engine-shaft. The produce of ores in the pitches is protty much the same as last month.

PRIOR AND BUCKFASTLEIGH .- Capt. C. Carpenter (Oct. 14) DEAN PRIOR AND BUCKFASTLEIGH.—Capt. C. Carpenter (Oct. 14) reports—The more I see of the ground we are cross-cutting through in the 40, the better I am pleased; as the heads, or joints, are so much finetured with the oxide of copper, and mica, or prian, convinces me that we are fast approaching the lode, and, in all probability, one that will soon show its being worth deevelopment. I cannot, for a moment, see that we ought to be discouraged from the appearances already presented; on the contrary, the indications presenting themselves, so far as my humble opinion and practice extend, give me the most sanguine expectations of ultimate success in the undertaking. I must add, I never saw the ground so congenial, and possessing such indications for mineral, as at present; this, however, is in some degree to be accounted for by the approximation of the lode. I think we may calculate on three weeks longer to intersect the lode in the 40, without it should make a more perpendicular inclination than in the 30 fm. level.—Capt. H. Choake (Oct. 18) reports—There is no particular alteration in the underground operations, the ground in the cross-cut being just of the same character as I stated in my last report. Driven from the engine-shaft, 7 fms. 5 ft. 6 in. We have 2 fms. more to drive to cut the lode, unless it should vary in its underlie.

DEVON AND COURTENAY.—Capt. N. Secombe (Oct. 17) reports—In

more to drive to cut the lode, unless it should vary in its underlie.

DEVON AND COURTENAY.—Capt. N. Seccombe (Oct. 17) reports—In the end driving west, in the 40 fm. level, on the gossan lode, the lode is 2 ft. wide, composed of spar, white iron, and mundic, with some good branches of ore in the lode, the ground is also very favourable for driving. In our end driving east, in the 50 fm. level, on the gossan lode, the lode is 2½ ft. wide, a part of which, about 4 im., forms a leader of good yellow copper ore, the other part is composed of mundic, spar, &c.; the end driving west in this level is suspended for the present.

EAST GROWNDALE Capt. S. Pauli (Oct. 14) reports. The ground in

driving east, in the 50 fm. level, on the gossan lone, the loce is 25 it. which, about 4 im, forms a leader of good yellow copper ore, the other part is composed of mundic, spar, &c.; the end driving west in this level is anspended for the present.

EAST CROWNDALE.—Capt. S. Paull (Oct. 14) reports—The ground in the 17 fm. level, driving east of Diamond's shaft, on the course of Thomas's lode, continues favourable for driving; the part of the lode we are now carrying is composed of peach, elvan, killas, spar, prian, and mundic, and is of a most kindly description, and bids fair soon to produce tin. We have commenced to drive a cross-cut north, in the same level, to intersect the north lode; the ground is speedy to drive in, and I expect less than 5 fms. more will cut the lode. The adit level, driving west, on the course of Thomas's lode, does not look so well as it did when last reported upon, the lode being much more impregnated with mundic and killas; this not being an unusual circumstance as to the character of this lode, I expect it will soon resume its usual appearance; it is, at present worth about 350. per fm.; the stope in the back of this level looks just as it has for some time past, except that the lode increases in size; it is 10 ft. wide, composed of peach, killas, prian, spar, mundic, and tin, worth about 24 per fm. The men hindered in Thomas's shaft through water, have been stoping off a piece of lode left standing in the side of this level, and putting in a stull, which is near being completed. Our engine, pitwork, and stamps are all in good working condition.

EXMOOR WHEAL ELIZA.—Capt. W. H. Whitford (Oct. 18) reports—Nothing is more natural than that the human mind is prone to lose sight of the most important objects, especially under circumstances of peculiar and anational depression, like the present; therefore, I feel perfectly justified in calling the adjust the present; therefore, I feel perfectly justified in calling the adjust the present; therefore, I feel perfectly justified in calling

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KIRKCUDBRIGHTSHIRE. The agent (Oct. 14) reports The lode in the 50 end west has increased in size, and is very kindly, but poor for lead, there being only spots and some small strings through it. The caunter lode east of this level is large, with good stones of ore in it, and the ground improving in appearance. Keith's shaft is now down to the 50 fm. level, and the men have commenced driving east and west; the appearance of the lode has much improved this week, and there is a good branch of ore in the bottom of end eastward; the lode westward is also very kindly. The lode in the 40 end, west of Keith's, is 3ft. wide, with spots of lead, and full of sulphur from wall to wall—a very strong lode. We have still a good branch of ore in the winze under the 40, worth about 5 ewts. to the fm.; the ground is stiff for breaking by the sides, with a deal of sulphur and copper in places.

LAMHEROOE WHEAL MARIA.—The agent reports:—The cross-cut in the 30 fathom level; on Davey's shaft, which was undertaken to prove south part of the K lode, has been suspended—Capt. Tabb considering the lode will be fully proved in the 40 fm. level; and the sinking of the stothat depth will be accomplished within this month.

LEWIS.—Capt. S. S. Noell (Oct. 14) reports—The lode in the 70-fm. level east is at present small, and disordered by a cross branch; the lode in the 70-fm. level west from the sump-shaft, on the south branch, is small and unproductive; in the 70, south-west from the pump whim-shaft, we have intersected a rich floor of tin 1 ft. thick; I expect to extend this level about 4 ft. more, to cut the south branch; it is 1 ft. wide, worth 101. per fm., and much improved since my last. In the 60 west, on the south branch, the lode is 1 ft. wide, worth 10 ft. the lode in the 60 east, on the south branch, the lode is 1 ft. wide, worth is 9 in. wide, producing fair quality rinstoff. The lode in the 50 east, on fte south branch, is 1 ft. wide, worth 61. per fathom; in the 50 east, on Raiph's

branch, the lode is 1 ft. wide, worth 32 per fm. The lode in the 40 east, or the south branch, is 6 in. wide, worth 22 10s. per fm.

branch, the lode is 1 ft. wide, worth 3l. per fm. The lode in the 40 east, on the south branch, is 6 in. wide, worth 2l. 10s. per fm.

MENDIP HILLS.—Capt. F. C. Harpur (Oct. 16) reports.—The lode in the 38 fm. level, south of shaft, is become rather larger than when I last wrote you, being at present about 2 ft. 6 in. wide, composed principally of flookan, spar, and iron, with slight sprigs of lead near the foot-wall part—ground favourable for driving. In the slag department, we continue to press forward, as fast as possible, with the open cutting towards the eastern, or more productive part of the valley; the beds of stuff at present laying open are without any material alteration, consisting chiefly of slag stuff, some parts of which, particularly that near the bottom of the valley, is tolerable good work.

SOUTH MOLTON CONSOLS.—Capt. W. H. Whitford (Oct. 18) reports—For the satisfaction of the distant shareholders, I beg te say, that our engine-shaft is sunk 12 fms. below the adit, which, deducting the rise of the hill, toggether with the underlay of the former shaft, will leave our present bottom about 2 fms. under the old workings. Our object of being only 12 ft. below the bottom of the old mine, is not to incur any danger by holing, and yet be sufficiently near to drain it. We commenced our cross-cut towards the lode last Monday night—price given 3l. per fm. Should the ground continue as at present, I cannot calculate less than six weeks to cut the lode; but I have very presumptive evidences to anticipate an important change for the better very shortly, as a hard floor, which passed through the shaft, will leave very witnesses of the rich lode gone down in the adit, just at that point when the lode is cut, considerable returns will be made. My expectation of something good, is confirmed by the united testimony of those men who were eye witnesses of the rich lode gone down in the adit, just at that point where we intend to intersect it. Our engine continues to work very well; I hope the same observation ma

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lode north of the cross-cut is much the same, it is small and harder, it is just the same strata as last mentioned; the ground in the south end is favourable; water just as usual.

TRELEIGH CONSOLS.—Captain William Symons (Oct. 14) reports—At Garden's shaft, below the 100 fm, level, the lode which has been in the shaft for several fathoms sinking has quite left us to the north; we are new in the country. In the 90, east of Garden's cross-cut north, what I mentioned last week, of cutting the wall of the lode has proved only a branch, 6 in. wide; hut little ore. In the 70, west of ditto, the lode is 2 ft. wide, with stones of ore, with an improvement in its appearance. In the 50, west of ditto, the lode is 2 ft. wide, with stones of ore, mundic, and jack—more promising. Wheal Parent engine-shaft is sinking in the country; ground much as usual. East on the middle lode, from the adit, the lode is 8 in. wide, no mineral. In the 60, west of Garden's, the lode is 1 ft. wide, but little ore.

TRENANCE.—Captain R. Dalton (Oct. 7) reports—No. 1: The deep adit level set to drive east by three men, at 3L per fm.; between 4 and 5 fma. may be seen a great improvement. There is a good course of grey ore and malleable copper on the foot wall. The lode is nearly due east, with the dip inclining southward.—No. 2: The deep adit level set to drive south-west, by three men, at 2L 18s. per fm.; this level is being driven nearly on the same course as the wind and intended to cut the lode at this depth; there were some small pieces of ore seen in it, and also some greens, but a piece of serpentine has twisted the sides, which I think will be found to be the same as was seen in the 12 fm. level above.—No. 3: Set the 12 fm. level (Dalton's) to stope up, by two men, at 2L 5s. per fm.; this pitch at present continues very good; the whole width, from wall to wall, on the south end, is about 7 ft., with malleable copper passing through it. We can only work this level, at present, about 3 ft. wide; consequently we are leaving the malleable c

width of the lode just here, we are leaving the foot-wall, on which the malleable copper is found, for the present. The whole of the engine and materials are now arrived on the mine.

WEST WHEAL JEWEL.—Capt. R. Johns (Oct. 16) reports—In the 70 fm. level, west of Williams's cross-course, on Wheal Jewel lode, no lode taken down in the past week. In the 57 fm. level west, on the same lode, the lode is worth 5l. per fm.; in the 157 fm. level east, on the same lode, the lode is worth 8l. per fm.; in the rise in the back of the 57 fm. level, west of Williams's cross-course, on the same lode, in lode, the lode is worth 5l. per fm. In the 47 fm. level, west of Williams's cross-course, the lode is 20 in. wide, producing stones of ore; in the deep adit, west of Hodges's cross-course, on the same lode, no lode taken down in the past week. In the 30 fm. level, west of Quarry shaft, on Tolcarne tin lode, the lode is 2 ft. wide, looking very promising for tin. In Tregoning's shaft sinking under the 12 fm. level, the lode is 2 ft. wide, producing stones of tin; no lode taken down in the deep adit, west of Quarry shaft, in the past week. The stopes in the back of the 12 fm. level, east of Pryor's winze, on Tolcarne tin lode, now working on tribute, worth 20l per fm.; the stopes west of Pryor's winze, in the back of this level, now working on tribute, worth 26l, per fm.; the stopes now working on tribute, in the bottom of this level, worth 22l, per fm.

WHEAL ANDERTON.—Capt. J. Carpenter (Oct. 12) reports—The lode in the 80 fm. level, east of shaft, is very much improved, carrying a leader of good tin work on the north part, from 20 in. to 2 ft. wide, with some good stones of tin in the elvan, on the south wall; the lode altogether is 6 ft. wide. I expect we shall get through the slide in the west end of the 80 by the latter end of this week; it is precisely the same sort of ground as we had in the 60 and 70 fm. levels, over this part. The lode in the back and bottom of the 80 is very good—working it respectively, in the botto

was calculated on, there being a large portion of quartz, intermixed with killas. WHEAL INDUSTRY.—Capt. W. Thomas (Oct. 9) reports—I have set the adit to drive north, on the caunter lode, 4 fma., at 18s. per fm., where they have some saving work for tin, and, from present appearances, there is every reason to suppose the lode now from 10 to 12 fms. will be cut rich, if the caunter lode holds good; it is fine strong tin indeed; Richard Dunn to drive east 2 fms., at 55s. For the present the lode is small, but a large stream of water issuing from it evidently shows it to be larger not far off from us. As we have now some good saving work. I have nut a man to cut a plat, to sengrate it from now some good saving work, I have put a man to cut a plat, to separate it from the attle, or rubbish, at the bettom of the new shaft, so as to save the work in a proper manner. I hope, from appearances, soon to cut the lode not far off us for tin. We have also a necessary job to drive west on the caunter lode—that is, the western caunter—which will let down a lot of the water which is now falling in the shaft, otherwise we shall be obliged to secure it with timber, to prevent its coming together, and timber will certainly be more expensive by far. We hope soon to be raising tin, so as to work the stamps.

sive by far. We hope soon to be raising tin, so as to work the stamps.

WHEAL MARY ANN.—Captain P. Clymo, jun. (Oct. 16), reports—The lode in the 50 fm. level, south of the boundary, is 14 ft. wide, and worth 4l per fm. The lode in the 40 fm. level, south of Barratt's shaft, is 24 ft. wide, and worth 8l, per fm.; the lode in the 40 fm. level, north of Pollard's shaft, is 2 ft. wide, and worth 8l, per fm.; the driving of the sevel south it is 2ft. wide, and worth 6l, per fm.; the driving of this level is suspended for the present and the men are rising in the back, to hole to a winze sunk under the 15 fm. level for ventilation; the lode in the rise is 14 ft. wide, and worth 9l, per fm.; the lode in the rise is 14 ft. wide, and worth 9l, per fm.; the lode in the winze, sinking under the 30 fm. level, nerth of the shaft, is 2 ft. wide, composed of gossan, can, and some good stones of lead. The stopes are looking well, but the ground is hard—consequently, we are not raising lead so fast as I anticipated.

WHEAL VINCENT.—Capt. J. Spargo (Oct. 19) reports—During the last

wheat as I anticipated.

WHEAL VINCENT.—Capt. J. Spargo (Oct. 19) reports—During the last week or ten days of dry weather, the water has decreased in the shaft on the course of the new ledg, and, being anxions to prove it a few feet deeper, I put a couple of men to sink it; by so doing, I am happy to inform you, the lode is getting larger, as well as producing excellent work, for it appears, as we get

deeper, the lode improves in size and quality. Our stamps are at work, and we have commenced dressing. The ground in the south cross-cut is still favourable, having got through the hard bar last reported. I expect little alteration before we come within a few feet of the lode, where I expect to find the ground

wheal white a switch sow tee of the sode, where texpect to find the ground in the 7c cross-cut, in Phillips's shaft, is still favourable. The lode in the 62, north of Phillips's shaft, is 5 ft. wide, and worth 151. per fm.; in the lode in the 62, north of Phillips's shaft, is 5 ft. wide, and worth 151. per fm.; in the lode is outh the lode is producing more ore than I have seen for some fathoms, and locks promising to have a good lode shortly; the stopes, in the back of this level, are producing a fair quantity of ore. The same will apply to the lode in the 52 fm. level. The ground in Trelawny's shaft, and in the 22 cross-cut east, is very similar to my last report. The lode in the 62, north of Trelawny's shaft, is large, and worth 101. per fm.; the stopes, in the back of this level, are producing a fair quantity of ore. The lode in the 42 north is 2 ft. wide, and worth 131 per fm.; the stopes, in the back of this level, are producing a moderate quantity of ore. At the north mine, the lode in the 50, north of Smith's shaft, is 8 ft. wide, and worth 61. per fm.; the water being drained from Smith's shaft, under the 30 fm. level, we have resumed sinking it, where the lode is worth 111 per fm. We sampled, on Friday last, a parcel of ore, computed 97 tons, to be sold on the 21st inst.

Wheal Fortescue.—A correspondent, "A Shareholder," has forwarded us a circular, signed by Mr. J. Matthews, the purser of this mine, stating that a call of 1l. per share was made on the 3d inst., and that, if not paid within 30 days, the shares become forfeited. "A Shareholder" complains, that the London and other out-adventurers can obtain so authentic information of the working position and prospects of the mine; and, notwithstanding there is a purser at 2l. per month, a manager at 2l. per month, and a resident captain at 4l. per month, to look over nine men, they obtain no regular reports, or statements of accounts, or other information, except that a call has been made, and must be paid. He states that some time since he saw a statement of accounts, from which it appeared that there were arrears of calls due amounting to 240l., and since that he has understood that the arrears amounted to 210l. The out-advanturers are most certainly entitled to more information than appears to be generally given in this case, and they have a right to demand the payment of arrears before they are pressed for fresh calls. We should recommend our correspondent to call a meeting of the London shareholders, and jointly endeavour to obtain a full explanation of the position and prospects of the company. A short statement of accounts, showing the amount in arrear, will be found in another column.

THE ECTON MINE.

THE ECTON MINE.

SIR,—Observing amongst your extracts from correspondence, in the Mining Journal of Saturday last, a paragraph relative to the Ecton Mine, I beg to say your informant was in error, in saying that the discovery made did not exceed 50 yards from the boundary of the Burgoyne sett; it having since been accurately measured, and found to be 295 yards from the said sett. The banquet also alluded to was merely a general meeting of the shareholders, for the purpose of transacting the ordinary business of the mines.

JOHN WILLIAMS. Ecton Cottage, near Ashbourne. Derby, Oct. 19.

MR. J. T. TREFFRY-PROPOSED TESTIMONIAL

MR. J. T. TREFFRY—PROPOSED TESTIMONIAL,

Sir,—If there be one man in the county of Cornwall who can be called the miners' friend, it is Mr. J. T. Treffry—a gentleman who we all henour and esteem, who not only spends his time amongst us, but his money, and whose example, while it is worthy of being followed, has, doubtless, its effect, and renders him beloved and respected by "one and all." It is not alone the large interest he possesses in the Fowey Consols, the Par Consols, and his mines at Newquay, but his smelting-works, the vast expenditure on the canal communication, the breakwater at Par, and his two lines of railway, the splendid viaduct and aqueduct which he has erected, and the new line now in course of construction to Newquay, crossing the county, the cost of which alone will, I am given to understand, exceed 100,000/—expending, as he does, every shilling which he so deservedly realises from his investments. As the principal proprietor of the port and town of Fowey, he is respected and revered; while simple m his habits, he has expended upwards of 100,000/. in giving employment to the artisan and mechanic, in building the "Place"—a residence which her most gracious Majesty honoured with a visit.

My object in writing you is to suggest that, through you, and the medium of the Mining Journal, a public meeting should be called in the county, and a subscription entered into, with the view of testifying the respect in which he is held, and which, I feel assured, if the operative miner was permitted to render his dole, would have the subscription of thousands. It is with the hope that, in thus myiting your attention, I may have the delight and pleasure in reflecting that I was the humble medium, through your columns, of awaking the attention of the miner, and those connected with mining pursuits, to the subject.—A Working Miner: Oct. 10.

MINING NOTABILIA. [EXTRACTS FROM OUR CORRESPONDENCE.]

[EXTRACTS FROM OUR CORRESPONDENCE.]

[Under this head we give copies and extracts of letters occasionally received from correspondents—not as official communications, but as the opinions of parties, or practical men, who may be interested in the respective mines, or forwarded merely as information. Considering them more of a private character than for publication, we do not give the authorities; still we shall at all times be ready to produce the original letters to any shareholder who may be desirous of perusing them.]

SOUTH CARADON.—This mine has not looked better, if so well, for the lest

SOUTH CARADON.-This mine has not looked better, if so well, for the last

WEST CARADON never looked so rich since her commencement.

West Caradon never looked so rich since her commencement.

Caradon Wheal Hooper must come out very shortly, for South Caradon is very rich on the same lodes, and are within 70 or 80 fms. of our boundaries. They are sinking an engine-shaft about 70 or 80 fms. of our boundaries. They are sinking an engine-shaft about 70 or 80 fms. orth of our sett, some fathoms east of our engine, which is in the middle of the sett; so that you perceive they are working all around us, and they have copper east, west, north, and south of us.

Caradon Copper Mine is looking extremely well, and promises to be one of the best mines in the neighbourhood. The north lode they have been working on is full 6 ft. wide in the 80 fm. level, with a leader of ore in it 16 inches wide; this is to the south of Caradon Wheal Hooper. Had I been situated as you are, I should direct my attention to this mine a little. I think something may be done here after a week or two.

Caradon United is but dull. I have been underground here twice, and I cannot recommend anything where they are working. The large lode that I saw in the 28 does not look so promising in the 38. My opinion is, that they ought to be excavating further south, where they have some very kindly lodes. I should sink on one or two of them, as they can connect rods to the same engine, if needful.

Caradon Mines are very poor, but not extended on far enough as yet.

CARADON MINES are very poor, but not extended on far enough as yet. MARKE VALLEY is much as she has been for mouths. But she will do well copper advance to about 110 standard—pay a dividend, I should think.

PHŒNIX I can say but little about; I have heard, rather poor.

WHEAL AGAR has been suspended for the last two months; and resumed operations on Thursday, the 12th inst., with 14 men—that is, miners—besides labourers. She is very promising; indeed, West Caradon party have bought 54 shares in her. She is divided into 128ths.

Gwinear Consols.—The 20 fm. end west has not so much mundic in it; we have gotten from it this week some good stones of bright yellow ore, but not sufficient to save the whole lode. We are approaching towards the dip of the great course of black ore and mundic which we had in the adit, and a good bunch of ore we had in the 10 fm. level.

PLYMOUTH WHEAL YEOLAND.—The engine-shaft will be sunk to the 35 fm. level by the end of this month, at which tevel the lode will be intersected by a cross-cut of about 5 fms. This will prove the lode under the slide, and, from the favourable change in the ground which has taken place in the engine-shaft, a good lode is anticipated, and the ore ground which was left in the bottom of the 20 fm. level will be worked away. The south adit is being continued; but, as the underlie of the lode has slightly changed, the lode may not be cut, and the ore ground which was left in the bottom of the 20 fm. level will be worked away. The south adit is being continued; but, as the underlie of the lode has slightly changed, the lode may not be cut, and maintaining its character. The average value of the last 9 fms. has been full 200, per fm. A railway is commenced from this shaft, to carry the ore to the stamps, whereby a considerable aaving will be effected, and the mine is fast assuming a permanent character. At a meeting of adventures held on Thursday like the stamps, whereby a considerable aving will be effected, and the mine is fast assuming a permanent character. At a meeting of adventures held on Thursday is commenced from this shaft, to carry the ore to the stamps, whereby a considerable aving will be effected, and the mine is fast assuming a permanent character. At a meeting of adventures held on Thursday is commenced from the substance of the stamps, whereby a considerable aving will be effected, and the mine is fast assuming a permanent character. At a meeting of adventures held on Thursday is commenced from the substance of a meeting of the denduction of a balance of 356L 4s. 7d., due from the purser.

WHALL FRANCO.—The sublimation of the substance of the substance of a meeting of the finance of a meeting of the substance of a meeting of the substance of a meeting of the finance of a meeting of the substance of a meeting of the subst PLYMOUTH WHEAL YEOLAND.—The engine-shaft will be sunk to the 35 fm. level by the end of this month, at which level the lode will be intersected by a PLYMOUTH WHEAL YIGLAND.—The engine-shaft will be sunk to the 35 fm. level by the end of this month, at which level the lode will be interacted by a cross-cut of about 5 fms. This will prove the lode under the slide, and, from the favourable change in the ground which has taken place in the engine-shaft, a good lode is anticipated, and the ore ground which was left in the bottom of the 20 fm. level will be worked away. The south adit is being continued; but, as the underlie of the lode has slightly changed, the lode may not be cut here for some time to come. The lode in Odgers's shaft is attil holding down, and maintaining its character. The average value of the last 9 fms. has been fall 201. per fm. A railway is commenced from this shaft, to carry the ore to the stamps, whereby a considerable awing will be effected, and the mine is fast assuming a permanent character. At a meeting of adventures held on Thursday last, it was agreed, that notice be given to the adventurers whose calls are in arrear, that if they be not paid before the 15th November, the shares will be liable to forfeiture, and that a special general meeting be convend for the purpose of declaring such shares to be forfeited. The creditors of the mine were referred to the defaulters for the settlement of their respective accounts.

WHEAL FRANCO.—The sampling last month was 120 tons.

Proceedings of Public Companies.

MEETINGS DUBING THE ENSUING WEEK.

MESTINGS DURING THE ENSUING WEEK.

... Real del Monte Mining Company—Gueen's Arms Tavern, Cheapside, Twelve.
Casicade Mining Company—Gueen's Arms Tavern, Cheapside, Twelve.
DAT ... Lewis Mining Company—Offices, at Two.
Callington Mining Company—Offices, at Two.
Wheal Franco Mining Company—Flymouth, at One.
Nister Dale Iron Company—Iondon Tavern, at One.
Llynet fros Company—Iondon Tavern, at One.
Llynet fros Company—Offices, at One.
Albion Insurance Company—Gueen's Arms Tavern, Cheapside, at Twelve.
Albion Insurance Company—Offices, at Twelve.

CONDURROW MINING COMPANY.

At a two-monthly meeting of adventurers, held at the mine on the 17th inst., the accounts were examined and passed, showing—Balance of last account, 2661. 17s. 4d.; labour cost, Aug. and Sept., 8561. 19s. 8d.; merchants' bills, 2661. 17s. 1d.; ford's dnes, 577. 5s. 3d.—1477. 19s. 4d.—By ores sold, 3d Aug., 7151. 5s. 1d.; tin sold, 16th Oct., 4302.—leaving balance against the mine of 3021. 13s. 5d. The following report, from Capt. N. Vivian, was read:—October 17.—I have to submit to the adventurers in Condurrow the following report of the mine, which I inspected on Saturday last. The 70 is extended 15 fms. cast and west of the engine-shaft; the ground in this level is much changed, and in colour from red to blue, which I consider a very good indication; the western end, which is actended 9 fms., has been productive throughout, and for the last 2 or 3 fms. has been very good off coppee over; it is 3 ft. wide, and composed of yellow, grey, black, and crystallised or, and is driving at is in 11. tribute (no tutwork)—2s. in 11. would be a very good price for it; the castern back of its is at work by 4 me, on tribute, at 2s. 6d. in the 14, its agood wages pitch, and we expect from 50 to 60 tons of high produce ore from this place at our next sampling; there is a winze sunk under it 2 fms., on a good lode, it fms. east of the shaft, and the caunter lode, at this level, continues productive. The 50, cassed of the shaft, and the caunter lode, at this level, continues productive. The 50 cagainst this shaft. The 40 fm. level has reached Hope's shaft will come down, and we have set to riso against this shaft. The 40 fm. level has reached Hope's shaft will come down, and we have set to riso against this shaft. The 40 fm. level has reached Hope's shaft to within 7 fms., and it is much 25 fms. below the 30 fms. below the 90 fms. We are also sinking Liandow'r shaft to Liandow'r lode. The cugine-shaft is set to sink 10 fms. below the 90 fms. We are also sinking Liandow'r shaft to the 60 or the course

SOUTH WHEAL TOLGUS MINING COMPANY.

SOUTH WHEAL TOLGUS MINING COMPANY.

A general meeting of adventurers was held at the mine, on Tuesday, the 10th inst., when the accounts for July and August were presented, showing—By call of 30s., made Aug. 10, 384t.; sale of copper cres. Sept. 28 (less 1-15th, lord's dues), 859t. 17s. 11d.—743t. 17s. 11d.—To balance of last account, 172t. 19s. 3d.; mine cost and merchants' bills for July and Aug., 43st. 11s. 3d.—leaving to credit of next account, 137t. 7s. 3d. The accounts were examined and passed, and the following report, from the agent, submitted:—

I need scarcely remark, that the details which I have just given exhibit a very decided improvement in the state of the mine since the meeting in August last. The discovery made in the 12 fm. level, west of the engine-shaft, has far exceeded our expectations, inasonuch as the fold is much larger and more productive than we had found it to be in great in the adit level; and we are thereby induced to place greater confidence in its holding good in depth. The usual size of the fold in the adit level cas, with the fact of its continuing to yield moderate quantities of ore, serve to confirm the favourable opinion which we always held respecting the eastern ground, and we look forward to valuable discoveries being made in that part of the mine at no distant day. We have now the means of adding considerably to the roturns; and hope that for the current two months their amount will be somewhere about 700t. An increase of costs will also result, from an extended eacle of operations, which the improved condition of the mine readers secessay; but this will take place gradually, and every means will also result, from an extended calle of operations, which the improved condition of the mine readers secessay; but this will take place gradually, and every means will also result, from an extended calle of operations, which the improved condition of the mine readers secessay; but this will take place gradually, and every means will also result, from an

WHEAL MARY MINING COMPANY

WHEAL MARY MINING COMPANY.

At the two-monthly meeting of adventurers, held at the mine, on Wednesday, the 11th inst., the accounts were examined and passed, showing—Call, Aug, 9, 495L; silver-lead ore sold, May 19, at 93L 10s, per ton, 288L 4s. 6d.; June 30, ditto, 877. 19s. 9d.; Aug. 8, copper ore sold, 186L 1s. 9d. (less due), 31L 4s. 9d. = 1026. 1s. 3d.—By costs for July, 324L 6s. 2d.; ditto August, 327.6 s. 3d.; merchants bills, 228L 12s. 8d.; balance, last account, 54L 19s. 6d. = 930L 4s. 7d.; leaving balance in favour of adventurers of 95L 16s. 8d.—A call of 10s. per share was made, and the engueer directed to take the accessary steps for attaching a crusher to the steam-whim. The following report from Capts. Paul Rabey and C. Andrawartha was read:—

Oct. 11.—In the 80 fm. level west, on Wheal Mary lode, the 1cd is 4ft. wide, and will produce 2 tons of ore per fm., with every appearance of further inprovement; the rise in the back of this level will produce from 4 to 5 tons of ore per fm. The 40 fm. cross-cut south has been driven 63 fms., and we may, therefore, expect to gut the lode on getting through the olde at the surface, and we may, therefore, expect to gut the lode on getting through the elvan; the north cross-cut, in the same level, is driven 8 m. arctin of Parentiode, towards Orphan lode, through's very fine channel of ground. In the 40 fm. level west, on Parent lode, we have driven about 8 fms., the lode is in disorder ground and noor; the eastern end, in the same level, we have superior ore per fm.; the lode in the eastern and, in the same level, at present is not rich, but kindly, with good stones of ore. In the rise, gusins Chadwick's shaft. In the 20 fm. level west we have driven about 8 fms. from the shaft, and have a good lode, varying from 1 foot to 18 m. wide, producing about 3 tons of superior ore per fm.; the lode in the eastern and, in the same level, at present is not rich, but kindly, with good stones of ore. In the rice, against Chadwick's shaft.

In the dot varies from 3 ft. 10

WHEAL WALTER MINING COMPANY.

A meeting o ishareholders was held at 4, King-street, Cheapside, on Wednesday, the 18th inst.—HENRY SMITH, Esq., in the chair.—Mr. Chorrs acted

A meeting o fshareholders was held at 4, King-street, Cheapside, on Wednesday, the 18th inst.—HENRY SMITH, Esq., in the chair.—Mr. Chorrs acted as honorary secretary.

The minutes of the preceding meeting, &c., baving been read, the Chairmark briefly stated the object of the meeting, which was that of receiving an amended balance-sheet from the purser (Mr. Walter Weekes), that presented at the previous meeting requiring revision, as certain items were not recognised by the meeting; and there appearing to the shareholders to be some discrepancies between the account submitted, and certain statements made on the occasion; it being understood, that in the interim of the adjourned meeting being held, Mr. W. Snell, with Mr. J. Weekes, should examine the accounts, and that the purser should be in attendance at the adjourned meeting, to offer any explanations which might be desined necessary. He now wished to know whether any amended balance-sheet had been prepared.

Mr. Fox rose for the purpose of stating, that he attended there on behalf of Mr. Bridgman, as the representative of Mr. W. Weekes, and not being capable of affording any further information than that conveyed in a letter he had received from Mr. Bridgman, he would, with the permission of the meeting, proceed to read such document, which he would lie on the table, for the paranet, that the only alteration, or amendment, to the balance-sheet previously submitted, was a reduction of 174. 2s. 8d. from the balance-sheet previously submitted, was a reduction of 174. 2s. 8d. from the balance-sheet previously submitted, was a reduction being 3811. 9s. 3d. Such deduction arising from certain sams paid by the committee, but which the purser had included in the balance due to him. It appearing that at the former meeting, certain items which formed the account were not sanctioned or appreved by the meeting, the letter went on to state, that the sum of 1144, returned as damage to land, had been amended.

He considered that the question at issue was very simple, and required but a proper understanding.—In the end, the appointment of a committee was determined upon, consisting of the Chairman, Mr. Poole, and Mr. W. Snell, Mr. English being added thereto as the representative of Mr. Weekes—it being understood that gentleman should be duly authorised to act on Mr. Weekes behalf, and, moreover, that all books and vouchers should be laid before the

g been given to the chairman, the meeting adjourned.

STRAY PARK AND CAMBORNE VEAN MINING COMPANY. A general meeting of shareholders was held at the mine on Friday, the 18th sat, when the statement of accounts for July and August were presented, howing—By sale of copper ores, 5d August, 18604. 19s. 4d.; balance in hand, 22d. 6s. 7d. = 21894. 7s. 11d.—Tutork cost and merchants bills, July and august, 802d. 7s. 1d.; tribute and subsist, 738d. 4s. 10d.; lord's dues, 777. 10s. 10d.—leaving balance of 631d. 8s. 2d. in favour of adventurers.—By sale of copper res, 5th Oct., 2221d. 13s. 5d. The accounts, having been examined, were alwayd, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting:—lawed, and the following report from the agent read to the meeting read to the meeti

lowed, and the following report from the agent read to the meeting:—
Oot. 13.—In the 70, driving west, the lode is 18 in. wide, yielding 2 tons of ore per fm.
In the 80 end, driving west, at Wheal Francis, the lode is 18 in. wide, yielding 2 tons per fm.
In the 90 end, driving west, at Wheal Francis, the lode is 18 in. wide, yielding stones of ore; this end is in an improving state, and we have reason to expect a material change for the better within the unsuing month. In the winze anking below the 90 fm. level the lode is 2 ft. wide, yielding 5 tons of ore per fm. In the 100 end, driving west, the lode is 2 ft. wide, yielding 4 tons of ore per fm.; in the winze anking below this level the lode is 2 ft. wide, yielding 4 tons of ore per fm.; in the lode ond, driving west, the lode is 2 ft. wide, yielding 1 ton of ore per fm. in the 100 end, driving west, the lode is 2 ft. wide, yielding 1 ton of ore per fm. in the 100 end, driving west, the lode is 2 ft. wide, yielding 2 tons of ore per fm. In the 180 end, driving enst, the lode is 2 ft. wide, yielding 2 tons of ore per fm. In the 180 end, driving enst, the lode is 3 ft. wide, orey throughout between the love within 10 fms. further driving. The tribute ground throughout these mines continues to look very well, and our next sampling will not fall short of 500 tons.

WHEAL SETON MINING COMPANY.

WHEAL SETON MINING COMPANY.

At the usual two-monthly meeting of adventurers, held at the mine on the 10th inst., the accounts were examined and passed, showing—Copper ore sold 6th July, 1645£. 10s. 6d.; ditto, 3d Aug., 2469£. 15s. 7d.; less dues, 274£. 7s. = 3840£. 19s. 1d.—By cost for July, 1256£. 6s. 11d.; ditto, Aug., 1128£. 17s.; mermerchants' bills, 562£. 6s. 8d. =2247£. 10s. 7d.—leaving balance in favour of adventurers, 898£. 8s. 6d.; to which add, over from last account, 555£. 12s. 10d. =1449£. 1s. \$4d. —deduct dividend, 10ℓ. per share, 990£. leaves balance in hand of 459£. 1s. 4d. A dividend of 10ℓ. per share was declared, and balance carried to credit of next account. The following report, from Capts. Paul Rabey and Stephen Lean, was read to the meeting:—

Oct. 10.—We have intersected Bull's lode in the 100 fm. cross-cut, 1 ft. wide, composed of spar, mundle, &c., about 5 fms. from shaft. In the 90 fm. level west, on ditto, the lode is \$ft. wide, producing 8 tons of ore per fm., and no south wall; in a winze sinking below this level, we are carrying about 7 ft. of the lode from the north wall, which will produce 8 tons of ore per fm., and no south wall; in a winze sinking below this level, we are carrying about 4 feet of the lode from the north wall, which will produce 30 tons of ore per fmthorm—down 4 fms.; the stopes in the back of this level will produce 30 tons of ore per fathorm—down 4 fms.; the stopes in the back of this level will produce 30 tons of ore per fathorm, and no south wall; the stopes, in the back of this level, may be per fm.; and he per fm., with every prospect of a speedy improvement; the stopes, in the back of this level, will produce 15 tons of ore per fm., with every prospect of a speedy improvement; the stopes, in the back of this level, in 5 feet wide, and will produce 8 tons of ore per fm. The lode in the lode is 6ft. wide, producing 1 ton of ore per fm., with every prospect of a speedy improvement; the stopes, in the back of this level, in the 60 fm. level, on the lode is 1

WHEAL TREMAYNE MINING COMPANY. meeting of adventurers, held at the offices, George-yard, Lombard on Friday, the 20th inst., the accounts were produced, showing—

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22	1114 90		M Simons				 		4	1987	-7	9
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et.	19-Ditto	ditto		11 1	3 3	2	 503		3	Emp		
Lai	Arsei	ic	********	10	0 0	0	 35	.0	0			
	U II	Less lords	dues (1-2	Oth)			 £ 94	5	8-	1791	7	1

Total £1833 11 4
Leaving a balance of £153 16, 5d.
Lowing a balance of £153 16, 5d.
Lowing a balance of £153 16, 5d.
Lowing at taken at the mine, was submitted, showing—41 tons 13 cwiss black tin to be now on the mine, besides tinstuff, slimes, &c.

The following report, from Capts. J. Phillips and W. Blewett, was read:—
Wheal Tremeune Mine, Oct. 11.—We have drawn the water out of the old flat-rod shaft, and have commenced driving the \$5 fm. level west; the lode is 1 foot wide, producing 1 ton of copper ore per fathem, of good quality. In the \$50 fm. level, or the south lode, west of the cross-cut, south of Michell's shaft, the lode is \$5 ft. wide, and is worth \$61, per fm. for tin; we have opened in this level \$3 fm. or good tin ground. Maddon's shaft, on the south lode, is sunk \$5 fm. level \$4 fm. or good tin ground. Maddon's shaft, on the south lode, is sunk \$5 fm. level \$1 fm. of good tin ground. Maddon's shaft, on the south lode, is sunk \$5 fm. level, west of this shaft, or the \$5 fm. level by the end of this weak. In the \$6 fm. level, west of this shaft, the lode is \$2 ft. wide, and worth \$41, per fm. for tin; in the \$60 fm. level, cast of the shaft, the lode is \$2 ft. wide, producing moderate work for tin; in the \$60 fm. level, cast of the shaft, the lode is \$2 ft. wide, on the south lode, we find it \$2 ft. wide, orcy 'throughout; this level is driven 5 fms. west of the flookan; we have stopped driving the end for the present, in order to communicate to the 18 fm. level, cast of the winze, the lode is \$2 ft. the lode in the \$60 fm. level, the lode is \$2 ft. the lode in \$2 ft. the lode in this rise is \$2 ft. the lode in the \$2 ft. the lode in \$2 ft. the lode in the \$2 ft. the lod The following report, from Capts. J. Phillips and W. Blewett, was read :-

EVELAND MINE.—A general meeting of shareholders was held on the 2d when a statement of accounts was presented, showing—By sale of tin (less dues), 22l. 4s. 10d.; call of 1l. per share (less arrears), 187l. 10s.—200l. 14s. 10d.—By mine cost, from Oct. to July, 154l. 11s. 1d.; merchants' bills, 45l. 9a. 2d.; showing, in favour of mine, 9l. 14s. 7d.; which, deducted from balance end of Sept., 82l. 0s. 9d., leaves 73l. 6s. 2d. now against adventurers; to pay off which, and further prosecute the mine, a call of 10s. per share was made.

turers; to pay off which, and further prosecute the mine, a call of 10s. per share was made.

GRAMBLER AND ST. AUBYS.—At the two-monthly meeting of adventurers held at the mine, on the 10th inst., the accounts were examined and passed, showing—Labour cost, July and August, 3174. 9s. 10d.; merchants bills, 1084. 4a. 11d.—4254. 14a. 9d.—By copper ores sold, 4817. 18s. 6d.; tin ore ditto, 94. 4a.; less lord's dues, 277. 5s. 8d.—4634. 16s. 10s.; leaving profit of 386. 2s. 1d., which, deducted from 2254. 11s. 5d., owing purser at last account, leaves balance against the adventurers of 1874. 9s. 4d.—It was then resolved, that the resolution of the 21st July last, for the sale of the mine to Mr. Soper, be rescanded—that the resolution of the 13th June last, to stop the mine, be annulled—that the greats continue the present workings—and that Mr. Stokes and Captain Richards be directed to proceed against defaulting adventurers for their arrears of calls.

WEST WHEAL PROVIDENCE.—At a quarterly meeting of adventurers, held at the mine, on the 11th inst., the accounts were examined and passed, showing—Labour cost for June, 1184. 13s. 4d.; July, 1394. 2s.; August, 1394. 7s. 5d.; leaving 11f. 9s. 11d. In favour of advanturers, which, added to inlance end of May, 25 5s. 9d., leaves amount in hand, 14f. 9s. 8d.—Capt. Penglase's report we had in the state of the mark in our next.

WEST AFORTSCUE.—At a meeting of adventurers, held at Taylstock, on

At a meeting of adventerers, held at Tavistock, on swere examined and passed, showing—Balance from

last account, 1511. 7s. 10d.; call made 11th May last, 2561.—1071. 7s. 10d.—By costs, four months, 231. 0s. 2d.—leaving balance, when all calls are paid, of 1761. 7s. 8d. The calls due, in arrear on the day of meeting, amounted to 2051. 7s. 11d. The report will be found among the Mining Correspondence.

RUBY AND GARLIDNA MINE, WENDEON.—We much regret the amouncement of the intended abandonment of this mine, whereby a great number of persons will be thrown out of employment, at a time when there is but little chance of their procuring work at any others in the neighboarhood, and the gloom of such a circumstance is fully known only to those who feel its effects. We hear the mine, for the past five months, notwithstanding the low price of tig, has met the cost; but some of the tribute pitches being exhausted, the returns are, at the present time, inadequate. The lode in the ends has a very promising appearance, which is fully corroborated by the reports of several respectable and practical mine agents, who have inspected it, and whose opinion favours the idea, that the mine would, doubtless, be soon turned to a profitable issue, were a comparatively trifling sum expended monthly in tutwork, by opening on the lodes, and preparing a little tribute ground. The depth from surface is but 50 fms., and at each successive level has the lode been found more productiveness of the mine, would be verified by the present adventurers, whose acts of benevolence will long be remembered.

The proprietors of Blenkinsopp Colliery have, for several months, been en-

The proprietors of Blenkinsopp Colliery have, for several months, been en-aged in sinking a new shaft for opening out an extensive field of coals. The others have penetrated the coal seam at a depth of 53 fms., and found it to be ft. 1 in. in thickness, and of a very superior quality.

THE TIN TRADE—(From a correspondent).—The stock of block tin being quite exhausted, and orders having been received by the tin smelters which they are unable to execute, tin has, in consequence, risen in price full 3l. per ton, and a further advance in price is expected. New tin smelting houses are about to be erected at Charlestown, near St. Austell, on the south coast of Cornwall, which will be of great advantage to the tin mines in the eastern part of the said county, as also to the tin mines in the west of Devon.

the said county, as also to the tin mines in the west of Devon.

There is very considerable improvement in the metal market; and the letters from Wales and Cornwall generally represent business as more brisk, with advancing prices. The Liverpool advices of this morning show a rise of 2L per ton in the price of tin, and 3L per ton in that of fine copper. Lead continues at the same quotation as last week, but with a strong upward tendency. There is an extensive demand for copper sheathings. For antimony, and other metals which do not rank in the same class, there has thewise been much inquiry. Altogether, there is much more cheerfulness in the mineral branch of trade, and a speedy return to the prices from which metals receded, since the general derangement of all commercial matters, is confidently looked for. The smelters, it is expected, will, next month, determine on a considerable advance in the standard of copper. Report also asserts, that an increase will be made next month in the dividends of Wheal Maria (Great Devon Consols). The returns are new 1500 tons per month, which can, it appears, be continued for many years to come.—Morning Post of this morning.

BLAENAYON IRON COMPANY.

We have again received a number of communications relative to the position of this property, and must follow the course we adopted last week, of inserting abstracts from the most important points. "A Mineral Agent," Monmouthshire Hills, defends Mr. Deakin's character against the attack of "Veritas," and considers that he acknowledges the truth of the statements, by not attempting to refute them. His opinion is, that the property of the shareholders has been shamelessly wasted, but not by Mr. Deakin, whose character has been too long established to be easily affected, and he is well known to be an experienced clear-headed miner, and the senior mineral agent, with one exception, now employed in the principality.

has been snametessly wasted, our to be an experienced clear-headed miner, and the senior mineral agent, with one exception, now employed in the principality.

"Equity," Abersychan, is at a loss to understand why all the reductions proposed to be effected in these works should be left until it is quite too late to expect any good from them. He says, no notice has been taken of Mr. Deakin's charges, and that he enght to substantiate them; we do not think so; it is the duty of the parties complained of to refute them, if erroneous; and until such refutation under proof does take place, the public must believe in their trath. He afterwards calls upon Mr. Deakin to come boldly forward, to divulge everything he knows, and let the shareholders be fully aware of what they have really to expect.

"G. E. B." says, that "Veritas" has allowed personal pique to so far get the better of his prudeace, as to have caused him to publish a mass of blunders and unfounded assertions. There are one or two points on which "Veritas" has not only not told the whole truth, but has stated an actual untradh, in easying that the cost of keeping the horses at Blaenavon in 1847 was 584 per head per annum, which was not so much; and in stating that the company have more horses in proportion to the employ than any other work in South Wales. He explains, that the horse expenses are not only not higher, but not so high, in Blaenavon as at other works, which he can prove by documents; the proportion is certainly greater as far as the furnaces are in question, but not so large if the mileage of the under and above ground haulage be taken into account. He states that "Veritas" places this extra expense on Mr. Deakin, but says nothing in favour of a system by which a large proportion of the coal is buried for ever, and increased from 18004. In 1845, to 23004 in 1847. He must have known, and ought to have stated, that the price of pit-wood had increased to pit-wood increased from 18004. In 1845, to 23004 in 1847. He must have known, and ought to have

The communication of "Cymry" will be found in another column.

LONDONDERRY IRON MINES OF NOVA SCOTIA.

In the Mining Journal, of the 23d Sept., we inserted a report of these mines, by Mr. W. Cairns, a gentleman from Scotland, who accompanied the proprietor, Mr. Ross, on his departure from England. This report, dated 7th Sept., was of a very favourable mature, since which a party of six gentlemen, Messrs. Johnston, Fairbanks, Tempest, Uniacke, Ritchie, and Morton, who had attended a previous meeting in Halifax, for the purpose of considering the prospects of the company, paid a visit to the mines on the 13th Sept., and drew up a report on the following day. From this it appears, that the lands in which Mr. Ross is exclusively interested are situated about a mile from the Folly River, extending westerly towards it; about 50 rods from the road, is the excavation from which the specimens brought to England by Mr. Ross were taken, and around which, in every direction, indications of iron and lime were abundant. Immediately below the surface there is a bed of ochery ore, easily broken with the pick, and which contains, in abundance, nodules of friable, bright, specular iron ore. The whole distance which the party passed over to the "Folly," presented precisely similar appearances. Eastward of Mr. Ross's land is the property in which that gentleman is interested with the company, which the party did not visit; but, from inquiries made, they were informed, that throughout the same indications existed of lime and irou, equally distinct and abundant; and in which locality a large excavation had been carried from north to south, which fully proved the richness of the district, and with this evidence the visitors were satisfied. Seams of coal and fire-clay exist in alternate layer; three quarters of a mile southward from the mines, one seam of coal, 20 inches thick; and, since their visit, they had been informed that a practical miner, on further opening the coal, had discovered a layer of clay-band ironstone, several feet

Fundy, may be made at a very moderate expense, about seven miles from the mines. The settlement in which the mines are situated consists of several farms, cleared and cultivated in the manner usual in Nova Scotia; along the road which passes through it, the cultivated land on both sides is uninterrupted, and of a good quality. This road pursues the same general course as the main post-road to New Branswick, which, keeping generally along the head of the marsh lands that form the banks of the Bay, passes through the plains at the foot of the high-lands.

From the general result of their visit, these gentlemen state, that they found the facts and representations contained in the various reports respecting the Londonderry mines, fully confirmed, and that their previous favourable prepossessions were strengthened; and there appeared to be in one locality a combination of every thing needful for the manufacture of iron.

NEW METHOD OF ATTACHING THEIS TO RAILWAY WHEELS.—[Patentees, Charles Green and James Newman, Birmingham, manufacturers. Patent dated April 15, 1848; apecification enrolled Oct. 14, 1848.]—The invention of Messra-Green and Newman consists in a manner of attaching the bars to railway wheels. For this purpose the patentees employ a tire-bar, bent into a step-like form, and having a small portion of the lower vertical point bent again at right angles, so a to serve for a catch, or rest, to the felloe of the wheel. This tire is tret laid in a die, and the wheel placed therein, so that the felloe part may rest upon the catch. The top vertical portion of the step-like tire-bar is then bent backwards, by being submitted to the action of a series of top dies, until it lies along, and in close contact with, the horizontal portion of the tire-bar, but-projecting bey ond it, when it is clenched down upon the felloe of the wheel, which is then held fast butween it and the rest. In some cases it is clenched town upon the species of the wheel, the back of greater security.—Mech. Mag-

RAILWAY PROPERTY. The three great companies have expended 87,500,000 roductive capital—as follows:—	L-productive and un-
Birmingham	9.715.000
The yearly receipts as follows:— Birmingham Great Western South Western	2,340,600 simmat non
Deduct 33 per cent. working expenses	£1,333,333
Total	

LONDON AND NORTH-WESTERN RAILWAY.—At the present time, when the shares in this line are so depressed in value, it may be interesting to examine the traffic returns, and compare them with the previous years. The total amount of the earnings for the week ending Oct. 15, was 44, 1521. 16s. 2d.—that of the corresponding week of 1847, 43,5041. 16s. 4d.; the increase in the past week being in merchandise and cattle, while a slight decrease appears in the past week being in merchandise and cattle, while a slight decrease appears in the past week being in Marchandise and cattle, while a slight decrease appears in the past week being in Marchandise and cattle, while a slight decrease appears in the past week being in Marchandise and cattle, while a slight decrease appears in the past week being in Marchandise and the last week, 28,815t. 3s. 3d.

SOUTH WALES RAILWAY.—The Chamber of Commerce and the inhabitants of Lianelly have presented a memorial to the directors of the South Wales Railway, urging upon them the desirableness of completing, as soon as possible, the line between Swansea and Lianelly, a distance of nine miles, contemporaneously with the portion between Newport and Swansea, to accommodate the collecties, and lead and copper works of the district, and the increase of the trade of those places between Bristol, Manchester, and London.

The last train, on the opening of the Shrewsbury and Chester, was one-third

places between Bristol, Manchester, and London.

The last train, on the opening of the Shrewsbury and Chester, was one-third of a mile in length, and the three engines that drew it conveyed 2000 people.

RALIWAY MATKRIALS FROM FRANCE.—The vessel, Bee, arrived in the river from Dieppe, has brought a cargo of railway waggons, being returned railway materials from France, after having been used on one of the French lines.

FALLOF A RALIWAY BRIDGE.—About one o'clock yesterday morning, when the luggage and fish train, which leaves Margate about midnight, had reached the bridge which crosses the River Stour, in the hamlet of Chartham, the latter gave way, and the engine, tender, and train, with the materials of the structure, were precipitated into the river and valley below. No person sustained any injury—the driver, stoker, and guards, seeing something wrong, had just time to jump off, before the whole train sunk into the gulf below. The accident is supposed to have occurred from the action of the late excessive floods on the foundation of the bridge.

dent is supposed to have occurred from the action of the late excessive floods on the foundation of the bridge.

CHLOROFORM AS A MOTIVE POWER.—M. Lafond, an officer in the French naval service, has taken out a patent for a new engine, in which chloroform, in conjuction with steam, is the motive power. A trial was made recently at the manufactory of M. Charles Beslay, at Paris, in the presence of several engineers, manufacturers, and deputies. The results obtained from this experiment were highly important, and indicative of considerable economy. The engine has two cylinders, one to be acted on by steam generated in the usual manner. The boiler is vertical, and contains several copper tubes, among which the flame passes into the chimney; and, from the amount of heated surface, the water is quickly raised to boiling temperature. To the other cylinder and piston is attached the chloroform apparatus, consisting of a cylinder of castion placed vertically, containing, like the boiler, a number of copper tubes, the lower ends of which are closed, and the others all terminate in a single pipe in communication with the second cylinder. In these tubes chloroform is placed, and the first cylinder which receives the steam is in direct communication with the chloroform apparatus; the steam having raised the piston in the steam cylinder, and at the same time opened the valve communicating with the chloroform tubes, passes into the cylinder around them, and having the property rapidly to absorb caloric from the steam, the latter is suddenly condensed, the chloroform transformed to vapour, which, expanding along the pipe to the second cylinder, raises its piston—the steam piston is depressed, and the operation goes on alternately. This liquid thus performs the operations of a condensing agent, and a prime mover. The chloroform is, of course, again condensed for repeated use. It will thus be readily understood, that an expenditure of fuel is required only for one motion of the steam piston, the down stroke being performed by th

and that "aldehyde" is still more economical.

PLYMOUTH GERAT WESTERN DOCKS.—We are glad to learn, that these works are rapidly progressing—the excavations for the construction of the south dock having been carried on with great activity. The large coffer-dam for the locks is also in a very forward state. The steam-engine, which was bought from the Herodscombe Mine, will be started in about a week. Mr. Brunel inspected the works on Tueedny last, and, we understand, expressed himself perfectly satisfied. In an early Number, we shall give a full description of the works, and the prospects of the undertaking, when completed.

SUNDERLAND DOCKS.—The extensivo works now in progress for the formation of the new docks at Sunderland are proceeding in a most rapid and successful manner. The sea has been most effectively banked out of the tidal basin and nearly the whole length of the large dock; and there is the fullest confidence that this gigantic undertaking will be brought to a successful completion within the time fixed; and, what is still more unusual, there is a well-grounded expectation that it will be finished considerably within the estimated cost. The works begin to make a noble appearance, and, when finished, will be a magnificent undertaking. A dock of this magnitude, gained from the sea, within the range of the tides, is an enterprise now proved to be practicable, and a safe undertaking.

ELECTRIC TELEGRAPH FROM VIENNA TO LORDON.—In a lecture, delivered

and a safe undertaking.

ELECTRIC TELEGRAPH FROM VIENNA TO LONDON.—In a lecture, delivered on Thursday evening, at the Western Literary and Scientific Institution, by Mr. Partington, he stated, as a fact, that it was the intention of the Emperor of Austria, before the late troubles broke out, to have established a telegraphic communication between Vienna and London, by means of a single wire.

of Austria, before the late troubles broke out, to have established a telegraphic communication between Vienna and London, by means of a single wire.

EXPERIMENTS WITH GALVANIZED WIRE AND HEMP ROPES.—An experiment was tried last week in Woolwich Dockyard, to ascertain the comparative strength of wire and hemp ropes. A wire rope, 3 inches round, and a hemp rope of three strands, hawser laid, common make, 7 inches round, and a hemp rope of these strands, hawser laid, common make, 7 inches round, and a hemp rope of the esting machine, and on the hydraulic power being applied, the hemp rope broke in the middle on the strain reaching 113 tons, the wire rope remaining apparently as strong as when the experiment commenced. A wire rope, 3½ inches round, was then spliced with an 8-inch hemp shrond rope, and on the power being applied the hemp rope broke in the middle, with a strain of 10½ tons, the wire rope continuing apparently uninjured.

STEAM-POWER OF FRANCE.—According to a late statistical report, made to the Government, the number of locomotive engines constructed in France, and employed by the country in 1842, equalled the number imported from abroad; in 1843, there were two more French than foreign engines; in 1844, the surplus was 44; in 1845, 76; and in 1846, beyond which year the report did not go, this excess was 161. In 1846, there were 294 steam-boats, belonging to private individuals and companies navigating the rivers and seas. The numbers and force of the engines in use on land, and acting as locomotives in the steamers, were, in 1846, as follows—viz.: 4896 engines at work on land, equalling 163,402-horse power; 461 locomotives, of 60-horse power each, upon the average amounting to 27,600-horse power; 388 engines used in steam-ships and boats, amounting to 108,518-horse power. These, together, give a force of 299,515-horse power. Companing the strength of man to horse-power, it will be found that the steam-engines employed in France, in 1846, were substitutes for 2,937,625 men.

THE ALKALI TRADE.—We understand that at a late meeting of the alkali manufacturers of the Tyne, it was agreed to merease the price of soda, which is now 20s. higher. It is doubtful whether this increase can be sustained; and some have suggested, as a more preferable mode of remedying the embarrassed state of the trade, to lessen the manufacture 20 per cent.—Sunderland Herald.

NEW PATENTS.

S. C. Lister, gent., Manningham, York, for improvements in preparing, heeking, and combing wool and other fibrous substances.

F. C. Hills, Deptford, Kent, manufacturing chemist, for improvements in treating certain salts and gases or vapours.

R. A. Smith, Manchester, for improvements in the application and preparation of coal tar.

R. W. Sievier, gent., Upper Holloway, Middlesex, for improvements in the means of warping and weaving plain and figured fabrics.

J. E. Asert, of Lille, in the republic of France, machinist, for improved means of obtaining motive power.

DESIGNS FOR ARTICLES OF ITALITY REGISTERED.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

J. Marr, J. Gallie, and Co., London, Ediaburgh, and Dublin, serip type.
Welch and Margetsen, Cheapside, a panche wrapper.
G. F. Bowers, Brownhills, Staffordshire; T. Betteney, Longton, Staffordshire; E.-hailiner, Tunstall, Staffordshire and gluze troughs.
J. Presland, Charlotte-street, Blackfriars-road, batband.
A. Chaplin, Limelnouse, smith's portable furnace.
G. Fixt, Bishopsgate, package for lard.
W. Middleton, Birmingham, springs for buffers and drawbars of railway carriagol-John and James Me. Rac, Ave Maria-lane, inketsud.
W. and T. Avery, Birmingham, weighing machine.
Capper and Waters, Ragent-street, taxca tollar.—Mcchanica Moparist.

Am And Man No Ori Ori Par Par Ro Str We

Current Prices of Stocks, Shares, & Metals.

STOCK EXCHANGE, Saturday morning Eleven o'clock Bank Stock, 7 per Cent.; 183
3 per Cent. Reduced Anm., 83‡ ‡
3 per Cent. Consols Ann., 84‡ ‡
3 per Cent. Consols Ann., 84‡ ‡
4 Long Annulties, 8‡
India Stock, 10‡ per Cent., 237
3 per Cent. Consols for Acct, 84‡ ‡
Exchequer Bills, 10007. 2d. 35 32 36 pm. AGE, Assurant scorning Lee Belgian, 4½ per Cent., 71 Dutch, 3½ per Cent., 44 Brazilian, 5 per Cent., 83 Mexican 5 per Cent., 198 Russian, 5 per Cent., 98 Spanish, 5 per Cent., 19 Ditto 3 per Cent., 22½

93,000

33,333

52,157 te de-taken aufair

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MINES.—The mining share market, during the week, has not maintained that position which we anticipated from the actual business transacted during the previous 10 or 12 days. We, therefore, attribute this apparent suspension of active measures to a mere temporary cause; for we cannot reconcile ourselves to the impression that, with a general improvement in our mines, as well as in the metal markets, any continued dulness in the demand for shares, at present rates, can exist when the sole cause of the late depression is departing. We noticed on the 7th an advance of 21, per ton on tin; our quotations show another advance this week of 21, per ton; and refused copper is on the rise. Lead continues much the ame, the demand for home consumption show another advances this week of 21, per ton; and refused copper is on the rise. Lead continues much the ame, the demand for home consumption being well maintained.

Devon Great Consols, and Stray Park have been in request, but we are not advised of business having been done in any but the latter.

Shares in the following mines have changed hands during the week—viz.:

Devon Great Consols, East Wheal Rose, West Caradon, Mary Ann, Stray Park, Herodsfoot, Tregordan, Trehaue, Trettellan, Camborne Consols, Tamar, East Pool, Trellwny, &c.

Camborne Consols Mines are looking well, and represented to improve daily. Certain difficulties, unconnected with the prospects of the mines, having been settled to the satisfaction of all parties, and the few shares, which were originally obtained at a mere moninal price, having gone into other hands, we do not expect any can be obtained under present quotations.

Wheal Setion adventurers held their two-monthly account on Tuesday, the 10th, when a dividend of 10t, per 99th share was declared. The financial statement shows a profit of 892.8 a. 6t. on. July and August workings, which, added to the balance of last account, gives 144ly, is. 4d., and, after payment of the dividend, a balance of 892.8 a. 6t. on. July and August workings of tons of ore to the fathon; the stopes in the backs of the 70 and 80 are each that position which we anticipated from the actual business transacted during the previous 10 or 12 days. We, therefore, attribute this apparent suspension

Correctness of the opinions submitted.

In foreign shares, the transactions have been limited; we have to notice the following transactions:—Australians, Copaipo, United Mexican, Bolanos, St. John del Rey, Imperial Brazilian, and Mexican and South American.

John del Rey, Imperial Brazilian, and Mexican and South American.

The following numerous arrivals of specie have taken place in the port of London—viz.: ex American Bagle, from New York, with three packages of specie; Criental Queen, from the Mauritius, one case of bullion; the Tourist, from Calais, one bag of gold; the Inchimnan, from Calcutta, four cases of specie; the Crusader, from Bahla, one bag of silver coin; the Pauline Houghton, from Bahla, two cases of specie; the Doris, from the Mauritius and Cape of Good Hope, one box of silver coin, and five cases of specie; the Athenian, from Madras and the Cape, one case of specie; the Anglio-Saxon, from Havannah, one box of silver; Sir Robert Peel, from New York, one keg of specie, and twenty packages; Mary Nixon, from Madras, one case of treasure; the Lucinda, from Bombay, one box of specie; the Greyhound, from the Cape of Good Hope, two boxes of specie; the Video, one box; the London, from Madras, six kegs of specie; the Daphae, from Hordeaux, one case: the Curtisa, from Madras, six kegs of specie; the Daphae, from Hordeaux, one case: the Curtisa, from Madras, six kegs of specie; the Brakeges; the Circussian, from Cadix, nine packages, and two bags of specie; the Willom Brocker, from New York, one case of gold, and one package of the Westminster, from New York, three packages; the Circussian, from Cadix, nine packages, and two bags of specie; the Westminster, from New York, one case of gold, and one package of the Mauritius, two cases of bullion, and four packages; the Austlius, from the Mauritius, two cases of bullion, and four packages; the Austlius, from the Mauritius, one box of specie; the Belgas, from Cadias, one bag of coin; the Sanuel Enderby, from the Mauritius, two cases of specie; and the William and Sarah, from Oporto, with 11 cases of specie; blood and the package of consigned to the Bank of England.

HULL, Thusspax.—Since our last the share market has presented more firmness.

consigned to the Bank of England.

HULL, THURDAY.—Since our last the share market has presented more firmness, which may, in some degree, be attributed to the promised statement of accounts made by the London and North-Western Company, in refutation of recent attacks upon railway property generally. During the last few days there has been rather more inquiry for North British stock.—Local stocks without alteration.

RAILWAY TRAFFIC RETURNS.

Name of Railway.	Lgth. Rway		Price per share	Last Div.	Traffic 1848	Return 184
Belfast and Ballymena	372	British of a	3111 731	-	£ 680	-
Birkenhead, Lancashire, & Chesh.	19	997,284	37	5p.0		
Caledonian	141	3,993.732	174			830
Chester and Holyhead	84	3,014,062	19	1.0112	5011	19 000
Dablin and Drogheda	354	774,875	28	no bas	1879	
Dublin and Kingstown	7.	395,915	20	6	801	861
Dundee, Perth. & Aberdeen June.	478	544,554	25		863	
East Anglian (Lynn to Ely)	674	1,167,104	41	8	1216	178
East Lancashire	44	1,733,915	131	5	865	Dog
Eastern Counties and Norfolk	307	10,364,505	121	4	1616	947
Eastern Union	501	1,522,232	2073	1977 · · ·	17172	14082
Ediaburgh and Glasgow	574	2,556,889	371	6	1402	1244
Edinburgh and Northern	78	1,722,213	154	4*	4137	3692
Glasgow, Paisley, and Avr.	1024	2,286,353	60	4.47.85	2077	723
Glasgow, Paisley, & Greenock	224	848,328	14#	LUMBLY	2721	2953
Gt. Southern & Western, Ireland	131	2.844.897	204	4*	989	1117
Great Western	2903	11,311,069	701	7	-	1744
Kendal and Windermere	101	174,600	23	emir-	21201	20191
Lancaster and Carlisle	70	1,476,102	40	4	179	153
Lancashire and Yorkshire	1721	8,242,628	57-8	6	2520	1531
London and North Western	435	22,835,120	102-1		11537	10782
London and Blackwall	4	1,299,675	4	7	44153	43505
London, Brighton, & South Coast	1624	6,284,812	254	1-12	804	902
London and South-Western	215	7.139,733		22	10506	11034
ondonderry and Enniskillen	141	154,643	361	6	10943	9412
fanchester, Sheffield. & Lincolnsh.	58	4,651,093		200	129	1112
daryport and Carlisle	28	443,974	47	5	2927	2238
	4634	13,254,006	40	6	ull Vibra	557
didland Great Western (Irish)	50				23857	25027
North British	99	725,332	101	4*	1290	824
cottish Central	452	3,163,450	13	5	2643	2423
hrewsbury and Chester	23	1,245,496	22	-	1254	-
outh Devon	504	780,272	112	5	869	627
	1654	1,789,351	123	= 1	1549	948
aff Vale	38	7,389,329	21	6	11301	113
later	36	820,056	125	6	2058	1533
hitchaven Junction	12	684,684	45	man .	822	850
	69	150,879	9	8	201	180
		5,038,255			13953	12010
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35/00	LATEST CURRENT P	DICE	OF WHEELS	Cole	opper o

LATEST CURRENT PRICES OF METALS

CHARLE THOU WE'VE WORLD	€ 8. £ 8.	d.p some marries at vertigoing	€ s. £ s. d
Inon -Bar a Wales ton		0 COPPER-Old	0 0-0 0 7
		O YELLOW METALSHEATHING	0 0-0 0 7
		0 Tin-Com. blocksgcut. (0 3 17
			0-3 18 (
Sheet ,, ,,	0 0- 9 10	n Refined 0	0-416
		0 Straitsh 3	12 6 3 14 0
Pigs, ditto	3 0. 3 15	0 Banca 0	0-3 15 6
Welsh cold-blast?	3 15-4 5	ditto for arrival 0	0-
Tounuty big 3	Country Critical *	TIN-PLATES-Ch., IC i, box 1	9- 1 10 0
Scotch pig b, Clyde	1-24	, 1X 0	0- 1 15 0
Rails, average	10- 5 15	Coke, IC 1	6-170
Chairs	0-400	LEAD-Sheet k ton 17	0-17 5 0
Russian, CCNDc (0-17 0 0	Pig, English 16	
, PSI (0	" Spanish, in bd. 15	0-16 0 0
Gourieff 6	0	Red 0	0-18 5 0
. Archangel 0	0-13 0 0	Dry White 0	0-22 15 0
Swedish Steel, fagt.d 0	0-15 0 0	Shot (Patent) 0	0-19 5 0
,, kegse 13	10-14 0 0	SPELTER-(Cake) ? on spot 14	0-14 5 0
JOPPER-Tilef 0	0-78 10 0	For arrival 0	0
Tough cake 0	0-79 10 0	ZINC -(Sheet) m export. 0	0-20 0 0
Ordin. sheets, lb 0	0-0 0 9	OFTICKET VERN 1h 0	0-0 0 0
a Discount 21 per cent.	b Net cash.	a Discount 21 per cent	J Ditto
In kegs 4 and 4-inch.	Hacount 2 ner	cent. a Ditto 24 ner cent	h Net cash.
n bong. Discount 3	per cent.	& Ditto 24 per cent.	I Net cash
mDiscount 1	per cent.	n Discount 11 per cent.	. Alos Cabit
		The Part of the Pa	

— The production of pig-iron this year is generally allowed to be fully as much, and some people think greater, than the corresponding months of last year—and the demand is about equal to the production, notwithstanding the general duliness of trade. During the last three or four months the price of pig-iron has remained very stationary—not here is at otherwise to the production of the p

here is a tolerable good command for merchant tree.

EXPORTATION OF MINERALS, METALS, &c. —We extract the following piculars from the returns of the Board of Trade, for the month ending September 1847.

1848. Increase. Decrease Coals and culm £103,801 £96,393 £7,468 £7,661 £8,797 £7,661 £9,797 £7,661 £9,797 £1,7661 £9,797 £1,7661 £9,797 £1,7661 £9,797 £1,7661 £9,797 £1,7661 £1,7661 £1,7661 £1,7661 £1,767

IMPROVEMENT IN THE METAL TRADE,

IMPROVEMENT IN THE METAL TRADE.

It is with much pleasure we can again record a further advance of 2L per tow in the price of tin, and exident symptons of great impovement in the demand for copper. Notwithstanding our London quotations vary but little from those of last week, sales in copper have taken place in the Liverpool market at an advance of 3L per ton; and we believe, from information from numerous correspondents, that there is every prospect of a still further increase. The metal market generally is evidently approaching a more healthy state; and there appears good ground for reasonable hopes that the year 1849 will open with more cheering prospects than has marked the one now approaching its termination—one which has been pregnant with such fearful changes in national economy, and such severe commercial depression in ail the European states.

d - aretraper LEAD ORES.

Sold at Bagilit. ginan Sold at Aberrysteith.

25 £13 2 0 Sims & Co.

ditto 75 £13 2 6 ditto

mgoch 86 9 12 0 ditto

Total tons 186.

Sold in London.

92 £16 16 5 T. Somers.

Mines.

Mines.

Tons.

Amount.

Amount.

Purchasers.

Al 0 0 Calenick Smelting Co.

ditto 25 5 0 ditto

Sold on the 12th October to the Mellancar Smelting House.

Mines. Wheal Tremay	ne.	Tons	crost.	qrs.	The	100000	Price	per	ton.	30,	An	ioui	of.
ditto ditto ditto		0	15	2	22		41	10	0		201	u	1
Charles Viole	Carriage	11	12	3	2						£503	1 16	
	Ma	king	a to	al o	f						£508	18	-

Sample	d Oct	. 4, an	d Sol	d at	PER	CORES. ew's Hotel, Redruth, Oct. 19, 1818.
Attnes.	Ton	1.	P	rice.		Mines. Tons. Price.
Devon Gt. Cons. Wh. Josiah	94	****	£4 1	9 6	4.7	West Caradon 78 £6 12 6
ditto	86	****	6	9 6	pr ben	Atas -
ditto	65	****	7	5 0	181	4
ditto	63		7	8 6	1100	Aller .
ditto	59		6 1	1 0		Wh Pulandelde or
ditto	57		6	5 6	7.26/31	Attack
ditto	56		7	3 0	el. 10	Altho Cr
ditto	43		5 1	6 6	mir d	Forman Concellent Co
ditto	39	****	5	5 6	5 101	Alter and a second
Wh. Fanny	96		5 2	0	00 14	3114
ditto	84		5 (6	-	Manha Waller
ditto	78		5 10	0		ditte
ditto	75	MOLES.	4 13		201 12	
ditto	64		3 9			Bedford United 103 5 0 6
ditto	61		4 18	6	1	Wh Dink
ditto	42		5 1	6	- 1	Disconfe Missa
ditto	24		1 18	6		Wh Domhala
Wh. Maria	88		4 18	0	-	Holmhush
ditto	41		8 15	6	-	Wh. Speed 6 4 8 6
Wh. Anna Maria	85	3000	5 15	6	10 11	Wil. Speed 6 3 9 6
ditto	67	11.93	5 8	6	23810	Owen Vean 4 4 10 6

TA A DESCRIPTION OF THE		10	JIA	Li I	RODUCE.						
Devon Gt. Cons. Wh. Josiah					Marke Valley	168		£ 568	4	0	
Wh. Maria \$1367		· 400									
Wh. Fanny		7482	17	0	Will. L'HIK	65	20.75	905	12	6	
Wh. Anna Maria					I HUGHIX MIHES	44		945	8	0	
West Caradon 243 Wh. Friendship 225		1607	17						14	0	
Wh. Friendship 225		1050	11	0	Hombush	28		123	18	0	
Fowey Consols 219									17	0	
- oney Comsons 219	****	12/1	a	0.1	Owen Vean	4		18	2	0	

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Total tons..... 2505 €14,521 11 0

Copper orea for sale on Thursday next, at Farquibarson's Hotel, Truro.—Mines and Parcels.—United Mines 1053—Par Consols 290.—Wheat Comfort 295—South Caradon 294—Tresavean 216.—West Wheat Jored 70.—Wheat Brewer 25.—West Trethelian 24.—Tref-fry's regulus and copper 21.—East Downs 15.—North Downs 9.—Total, 2165 toms.

Copper orea for sale on Thursday week, at Andrew's Hotel, Bedruth.—Mines and Parcels.—Morth Roskear 1000—Consolidated Mines 593—North Pool 587—Wheat Setton 267
—Trances 106.—South Wheat Basset 93.—Wheat Bucketts 61.—Wheat Lyvyan 27.—Wheat Harriet 30.—Total quantity of ore to be sold, 3626 tons.

Sampled Sept. 27 and Garage

Mines. Tons.	Prod.	Price.	Mines. Tons. Prod. Price.
DODED 120	1424	S 15 6	Cubs 58 224 £ 14 12
ditto120	144	8 15 0	diese 224 £ 14 12
ditto 114	146	14 0	disto 56 22414 6
ditto 96	148		Berehaven 124 11 7 4
ditto124	7.45	11 6	ditto 100 94 6 0
ditto	100	10 6	ditto 99 102 6 14
ditto 121	148	13 0	anto 91 10 6 %
ditto 86	144 9	1 6	Knockmahon 105 81 8 6
ditto 53	15 9	2 6	ditto 67 101 6 7
ditto 80	241 15	14 6	ditto 49 51 3 10
ditto 62	24# 15	17 6	ditto 44 111 7 7
ditto 58	242 15	19 6	Chili 60 524 31 10
intiago116	134 8	7 6	ditto 02231 10
ditto 105	131 8	9 0	ditto 59 3232 10
ditto 96	124	7 0	ditto 58 52430 2
ditto 36	121 0		ditto 33 52 31 2
aba 101	19 0	0 0	Burra Rurra 70 24 16 12
ditto 87	191		CHILD 10 CF 00 11 1 998 2 91 1 1
dista	101 9		ditto 52 201 . 01 19 4
ditto 81	a 8	4 0 1	panymurtagh 37 31 9 1 6
ditto 69	31 8	6 0	ditto 23 61 4 1

COMPANIES BY WHOM THE ORES WERE PURCHASED.

English Copper Company	CANADA CONTRACTOR	Amount.
Preeman and Co.	A7	
Grenfell and Sons		2344 0
Sims, Neville, and Co.		067 3
Vivian and Sons		218 16 4
Williams, Foster, and Co		288 4 (
Selmelder and Co		718 0 0
	a. 126 5	616 9 6
The state of the s	Tales and the latest	-

NOTICES TO CORRESPONDENTS.

Mrw Brarino Mral.—In answer to the inquiry, in last Journal, from an Exeter to respondent, requesting information on the subject of a bearing metal, heating less case than common bearing metal, we are requested to state, that all particulars regarding price, wear and tear, &c., can be obtained on application to Mesars, Garden and Me andrew, Queen-street, Cheapside. We expect to be able to publish a full description to the metal reserved to in an early Namber.

"M.F." (Bangor).—We are obliged to "M.F." for his communication; but we fear we shall be always open to some such complaints. The numerous correspondents to whom we are necessarily dependent, abread and at home, for a great portion of the information we weekly dispense, renders it next to impossible to test the literal accuracy of all they furnish—though, as far as we can, such is carefully studied before publication

THE CONVAY TURES.—In the Journal of last week, referring to the two tubes of the Convay Bridge, we stated that the *lifting*, and not the *facating*, of the second tube had taken place, whereas the latter was the fact; they are totally distinct operations, and when the former is accomplished, the difficulties are considered at an end.

the former is accompnished, the distinction are correspondent would favour use communication, on the subject. "his note, for publication.

with a communication, on the subject in shore, for phonoscon.

"T. B." (Buckfastleigh) shall receive a letter in a day or two.

"R. B.," (Covent-garden).—We shall avail ourselves of some of the information con in the letters when an opportunity offers—possibly on the arrival of our next dispersion of the colony. However, we should be glad to receive an original communication as that alluded to, if "R. B." has time to prepare one.

such as that alluded to, if "R. B." has time to prepare one.

(?) shall have the information in next Journal, descriptive of Mr. Osborn's improve system of steam ploughing, from the 20th line, thould read—"Another trial was unade extending the distance to 210 yards between the engines, when, with both a Kenttur rest and an Essex two-wheel plough, very good work was accomplished. The subsequent trials were made with a single engine—the wire-rope being returned through pulley, nuchored opposite the engine, and were equally successful as regards the working.

s upon our correspondents, the necessity of invariably furnishing us with and addresses; not that their communications should, consequently, be an earnest to us of their good faith.

A Gladsary of Mining and Smelting Terms,

USED IN ENGLISH AND POBEIGN MINING DISTRICTS. Published at the office of the *Mining Journal*, 26, Fleet-street, London; and may be had of John Wesle, 59, High Holborn, and of all booksellers and newsmen.

THE MINING JOURNAL

Railway and Commercial Sagette.

LONDON, OCTOBER 21, 1848.

The MISHOG JOURNAL is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

The weather has, during the past week, presented to our feelings unmistakeable symptoms of the approach of winter; and when we call to mind the position of a very large amount of population-that vast proportion who cannot otherwise obtain the commonest necessaries of life, but by incessant daily labour-and the present very generally depressed state of trade and manufactures, the prospect before us is gloomy in the extreme. If we can scarcely look forward to the position of our own labouring and mining population, during the ensuing four or five months, with the hope of general improvement taking place, and thus ameliorating their condition, with what sentiments shall we anticipate the probable circumstances attending the poor of Ireland during the ensuing winter? A large majority of the people without chance of employment, land proprietors and householders, large and small, taxed to the amount of half their rental towards the support of the poor, small tenants and their families being turned out of house and home, wretched, destitute wanderers, the peasantry burning with rancour towards their oppressors, and just struggling out of incipient rebellion, and only kept within bounds by the bayonet of the soldier and policeman, present to the mind's eye the prospect, during the cold horrors of winter, of desolating misery, destitution, starvation, and death. An onerous degree of responsibility rests on the Government of this unhappy, though fertile and prolific, land; and while leaving them to devise schemes for promoting a wide change in the public policy of Ireland, it behoves the Irish landholder, the wealthy, the influential, and all who can render the most trifling aid, to put their shoulders to the wheel, and adopt every possible measure in all the districts of Ireland to mitigate, as far as human aid can effect it,

districts of Ireland to initigate, as far as human aid can effect it, the bitter misery which, in all probability, is now beginning to be felt in that ill-used country.

Is is with much gratification we observe that a meeting of the nobility and gentry has just been held at Ballinasloe, to consider the best means to be adopted, for extending the Irish Great Western Railway, as a great arterial line into the county and to the city of Galway, and thus provide reproductive employment for a large portion of the midland districts of Ireland. The Earl of Clancarry expressed his conviction that great advantages would result from expressed his conviction that great advantages would result from this extension not only to the provinces of Connaught and Leinster, but to the entire kingdom. The Marquis of Sugo not only concurred in this view, but expressed his opinion that every man of whatever grade, high or low, rich or poor, but more particularly the wealthy and influential, and those who drew their incomes from the soil should expert themselves to the utmost of their power conthe soil, should exert themselves to the utmost of their power, connections, and ability, to promote this, and every other means of giving reproductive employment to the peasantry, and eventually bringing about the regeneration of Ireland. We hall these ex-pressed convictions of two Irish noblemen, who are always foremost in any measures for the good of their country, and the advance ment of the population, as a bright star in Ireland's future horizon been assiduous in the formation and progress of the IRISH AMELIORATION SOCIETY (a communication on which appears in another column), from which we have before expressed ourselves, as auguring so much benefit to the population and the public; and we trust they will persevere in carrying out this grand feature of employment. Crossing the island from Dublin to the city and bay of Galway, and thus connecting the Shannon at Athlone, with the eastern and western shores, this line alone would be of vast import-Unlike the system of setting men to labour on unproductive works, merely to keep them to some employment, to prevent their filling the union poor houses; the establishment of railways—while the labourer upon them would be fully remunerated during their construction-opens up a field of constant employment in future working—a fountain of certain remunerative return for the capital invested—and a rapid means of transit throughout the island, which would vivite by remander of transit throughout the capital invested—and wrapid means of transit throughout the island, which would vivify her commerce, re-animate her now desponding tradesmen and agriculturists, and sow the seeds of future prosperity, happiness, and content. Money, however, must be had before this desirable undertaking can be commenced; and in the nt depressed state of the share market, we fear it would be ess to offer the shares to the public at the present moment. It seless to offer the shares to the public at the present moment. It is suggested at the meeting that, if properly applied to, Governate could not object to advance 500,000.; and we should imagine, an its employment would certainly be productive of such vast wite, and when, by the issue of debentures for the purpose, on unity of the works, the current income of the Treasury need not interfered with, that not only would they "not object," but that y would hall the opportunity of thus assisting to advance the interests of Ireland. Give the people employment, in forming so iron links, which shall unite all parts of the kingdom, for rapid

transit of commercial, manufacturing, and agricultural produce, and we shall hear no more of disaffection, or deliberate assassination—her population settling down into habits of contented and productive industry, as employment was provided for them.

It has often been our province, as journalists, more particularly as regards the metalliferous produce of the earth, to record reports of valuable deposits of the precious metals, or other important mineral discoveries, which, in the majority of cases, turn out either to be rumour only, or at least partial indications, productive of no good results. The past few weeks have, however, been pregnant with important information of the discovery of immense deposits of gold California—reports which we at first received with much caution ad incredulity, but which, from the confirmations continually since and incredulity, received, through the American press, we feel bound to plece some reliance on. It would thus appear that, after centuries of vain research, the true El Dorado has been hit upon by accident, in Upper California. Along the banks, to a great extent, and in the bed of California. Along the banks, to a great extent, and in the bed of the Sacremento River, vast deposits of gold-dust exist in the sand at the surface, which requires only washing to obtain the auriferous products. The town of San Francisco, situated near the river, is nearly tenantless, having poured forth the greater portion of its in-habitants in prosecution of that most attractive of all undertakings—the gathering of gold. The quicksilver mines, too, but lately discovered, and which were producing so prolifically under the most rude methods of reduction, are all but deserted; the workmen, yielding to the common impulse have left their legitimate occupation in ing to the common impulse, have left their legitimate occupation in the hope of obtaining a good share of the more precious substance strewed so profusely by the bountifully overflowing hand of Nature along the sides, and throughout the current of this interesting and

as yet unexplored river.

This is, at all events, the substance of repeated notices from the districts; and although, with regret we say it, many similar statements in the American journals are totally unworthy of the statements in the American journals are totally inworthy of the least credulity, and which publications have become a bye-word for ridiculous and far-fetched tales, we cannot but believe that there must be some grounds at least for these repetitions of the notice of a discovery in which the nations of Europe, and, indeed, the world, are interested. While we wait its more unquestionable confirmation, we cannot but reflect on the immense importance and advantage to the people of the United States which this discovery in a newly-acquired territory, whether acquired the forten, or newly-acquired territory, whether acquired by fortune, force, or fraud, secures to them. This source of wealth cannot be left to the mercenary grasp of individuals; the gold-producing lands must be secured and worked by the Government—and thus we see them after a short, but brilliant career, appropriate to themselves both territory and wealth, fur beyond what was foreshadowed, or fore by the most prescient or sanguine of their pilgrim forefathers. was foreshadowed, or foreseen by the most prescient or sanguine of their pilgrim forefathers. As Englishmen, however, and as leaves in common with them of the great Saxon genealogical tree, whose branches are now flourishing throughout every clime, we cannot but congratulate them on so magnificient a discovery, trusting that we may not have to deplore the consequences of this addition to their elements of power; and that instead of rendering their friendships less stedfast, and their State policy more warlike, we may see them devoting their success to the amelioration of society, the abolition of slavery, the advancement of science and the arts, and the unit ratios of reace and compared to a state of the same property of the same and the arts. ment of science and the arts, and the cultivation of peace and commerce with all the nations of the globe. Should the Sacramento River and its banks yield but half the golden harvest the information hitherto received justifies us in believing it will yield, it will, in a great measure, modify our national commerce, and render America a serious rival to Russia in the supply of gold to European nations—the greater portions of which at the present period, and for a considerable time past, being brought from the wilds of Siberia.

In another column will be found some further information, and an integrating reacting the state of the discount of the state of t

an interesting report, of the discovery of a gold deposit in our own territory, the Quebec district of Canada; and which—with less flaming accounts—has something more of steady promise, because of much less pretensions than the Californian information.

We find that our recent remarks on the North British Aus-TRALASIAN COMPANY have had some effect on the proprietary. are determined, however, not to allow the matter to rest, until we rouse the shareholders to a sense of their position, and to a convicrouse the shareholders to a sense of their position, and to a conviction that it is necessary to make an exertion to place their affairs on a more satisfactory footing. We have received a copy of the Deed of Copartnery, and also a letter on the subject, by an intelligent shareholder, lately published in Aberdeen. We have not space to give these at length in our columns at present; but shall content ourselves, in the meantime, with noticing the more important points, making use of the statements in the documents alluded to. We may observe, that the writer of the letter is a resident in that county; and he mentions, at the commencement, that he has taken a considerable interest in, and devoted some time and trouble to, the affairs of the concern; and it may, therefore, be believed that the affairs of the concern; and it may, therefore, be believed that he can throw some light on its position. But, in 1844, he was also member of a committee of inquiry, who entered into an examina-tion of all the documents, which induces us to attach additional

a member of a committee of inquiry, who entered into an examination of all the documents, which induces us to attach additional importance to his observations. He is convinced that, as a company, they possess the means of complete success; but that matters have been, and continue to be, most shamefully mismanaged.

On perusing all the facts of the case, we most fully agree with him. The first clause in the deed is, "The proper object and business of the company shall be the acquisition of land, either by purchase or otherwise, and of other property, real and personal, for resale, agricultural, or grazing operations, or such other use and purpose as may, from time to time, be deemed most beneficial for the interest of the company; and, also, the granting of loans, or advances, on the mortgage of real property on the deposit of title deeds, &c., &c., together with such agency, exchange, and commission transactions, as may appear to be safe and profitable, drawing the rents, interests, dividends, and profits arising thereon, and dividing the same amongst the partners."

viding the same amongst the partners."

Now, we are of opinion that, on the discovery of the copper ores the mining operations should have been carried on as a separate undertaking, managed by a distinct and qualified committee—the original concern being, from time to time, credited with the profits nor the greatest, violation of all the principles which should have guided those who were trustees for other people's property. By the second clause in the deed, the capital is fixed at 50,000l., with the second clause in the deed, the capital is fixed at 50,000l., with power to increase it, "by the creation and addition of new stock;" then it is specially provided, "but declaring always, as it is hereby expressly provided and declared, that no money shall be borrowed by this company; nor shall any investment, or engagement, be made, or entered into, beyond their own paid-up and proper tangible capital and means at the time." Now, the capital stock of the company was, at first, certainly limited, as here directed, to 50,000l., and it was all remitted to the colony during the first 12 months, with the exception of \$290l., which appears to have remained in the hands of the cashiers at home.

On the 31st of July, 1841, the first annual general meeting of the lders was held, at which the directors, in their report, snarenoiders was held, at which the directors, in their report, informed the partners that the business of the company consisted of three general branches:—1st, loans and discounts; 2d, grazing and agricultural operations; and 3d, purchases of land and shares of joint-stock companies for re-sale—which business was all in accordance with the provisions of the contract. Although the undertaking was established in Aberdeen only in 1839, yet the profits were represented at this meeting to be already very large, and the

directors recommended that a dividend, for the year ending 31st of December, 1840, should be paid, at the rate of 12 per cent., leaving a considerable sum to be carried to the credit of a reserved fund. They also recommended that 50,000 new shares be given off, in terms of the contract, at a premium of 6s. per share. All these recommendations were sanctioned at a subsequent meeting, and carried into effect. The first and the last dividend which the unfortunate shareholders have got, through the most calcable microscopic. ried into effect. The first and the last dividend which his misma-tunate shareholders have got, through the most culpable misma-nagement. It is admitted by the directors, that the first balance-sheet, received from the manager (Mr. Beattle, afterwards dis-missed), to 31st December, 1840, and laid before the first annual misseal, to 31st December, 1840, and and before the first annual general meeting of the company, on 31st July, 1841, exhibited investments in the colony to an amount of 28,000l. beyond the amount of the capital stock of the company, in direct violation of the second clause of the deed, quoted above. This fact was not noticed in the clause of the deed, quoted above. This fact was not noticed in the report by the directors to the partners, nor did the directors, so far as known, complain to the manager of his having made investments to so large an amount beyond the paid-up capital, notwithstanding the provisions of the second clause of the contract. Under the circumstances, it is acknowledged that the directors had it not in their rower to correct this mismeagement but the extended in the interest. cainstances, it is acknowledged that the directors had it not in their power to correct this mismanagement, but they certainly might, and ought, to have pointed it out to the partners, and also to have rebuked the manager; they did neither the one nor the other, but approved highly of his conduct, and led the general meeting to join in this approval. This is one of the first reasons why we consider the present direction have entirely forfeited the confidence of their constituents. The directors in their recent (or hedding the present direction have entirely forfeited the confidence of their constituents. the present direction have entirely forrested the connecte of their constituents. The directors, in their report (embodying the manager's fifth and sixth reports to them) on the business of the company, for the year ending 31st December, 1841, as read at the second annual general meeting, of September 6th, 1842, informed the shareholders that the manager had been perplexed, and his efforts retarded, by the state of the financial and commercial affairs of the colony, which, from October, 1841, had become deranged and depressed, and that the profits on the business were much less than depressed, and that the profits on the business were much less than those of the previous year. In the face of this, the directors had the imprudence to conclude their report in these terms—"The manager continues invariably to state that he can employ additional capital beneficially. The present, however, does not seem to be a favourable time for increasing the capital of the company, by giving off new stock [the only way in which it could legally be done.—Ed.]—but as it appears that obligations had been entered into in anticipation of an increase of capital, and these have from time to time to be renewed at heavy colonial interest, the directors are of opinion that, in order to clear of these obligations, and with a view to save that, in order to clear of these obligations, and with a view to save the difference between colonial interest and the rate payable in this country, additional funds should be raised and remitted to the macountry, additional limbs should be raised and remitted to the manager. The directors have, therefore, resolved to apply to the shareholders for authority to raise a sum not exceeding 20,000L, upon such terms as the same can be obtained at for the above purpose; and they now request the authority of the shareholders to that effect. Should the shareholders acquiesce in the opinion expressed upon this appliest and error to at least the conditions are such careful. upon this subject, and grant authority accordingly, the directors would recommend that the advance shall be reckoned of a temporary and not of a permanent nature; and, therefore, that the manager shall be instructed to realise, as soon as he can do so with prudence and safety, such of the investments as he shall deem it

prudence and safety, such of the investments as he shall deem it most expedient to part with, and remit the proceeds to the cashiers, to be applied in liquidating the advance which may now be made."

The true cause, we believe, for borrowing the 20,000l. arose from the difficulties in which the manager, supported by the directors, had placed himself, by making investments to a much greater amount than the capital of the company; and had the directors stated this to the partners, they would, probably, have refused to raise money at home by loan, and so far the partners were induced to act under a misapurchension of their treatosition. But we positively done a misapprehension of their trae position. But we positively deny, that by the 2d clause of the contract, the shareholders had legally that by the 2d clause of the contract, the shareholders had legally the power to give any such authority as is here asked of them, and of this the directors themselves must have been quite aware. As we have already stated, that clause provides, "that no money shall be borrowed by this compant." The directors have lately again set at nought the provisions of the deed in this respect, by raising a loan of 17,000l. However, we shall stop here for the present, reserving the further details in our possession for another and an early opportunity. We have much more to say, particularly with regard to the mining operations, but we cannot conclude this article, without making a suggestion to the proprietors in general.

out making a suggestion to the proprietors in general.

We address the Scotch as well as the English shareholders—indeed, the former are by far the more numerous, and must have an equal desire to see matters set right. We have evidently no object to serve, but to expose abuses where they exist, and to aid those whom we believe to be wronged. This, we consider, to be one of our greatest public duties, and we shall do everything in our power to fulfil it; we, therefore, recommend that some of the principal shareholders, in or near Aberdeen should immediately call a meeting, for the purpose of considering and adopting a plan to insure the election of an entirely new board of directors at the next annual meeting—that a requisition, by means of a short advertisement in some of the London papers, be made to the English partners for their co-operation and that every evertion should be readed. ners for their co-operation, and that every exertion should be made to obtain votes and proxies to support such men as are willing and qualified to act as directors. It would also be advisable that an qualified to act as directors. It would also be advisable that an English gentleman should be elected as a corresponding secretary, or agent, through whom those interested in this country might obtain every information that is afforded to those in the north; and in turn, that he should be capable of giving the directors intelligence and advice concerning any point affecting the company's commercial, agricultural, or mining operations.

By the sixth clause of the deed, the managing committee hold office only by the year; and by the seventh clause. In the choice

office only by the year; and, by the soventh clause. In the choice of a committee of management, and all other matters submitted to the consideration of the shareholders, the partners present at any meeting shall have right to vote, according to the number of their shares—each share being entitled to one vote;" "and, in the election of members of committee, partners may vote by proxy, either general or special, addressed to a shareholder—the mode of election being for the partner voting, whether for himself or as a proxy for another, to hand in a signed list of the names of those for whom he votes to the president of the meeting, who shall, with the assistance of the agents, experies the decire." ance of the agents, examine the lists and declare the election.

IMPROVEMENTS IN MANUFACTURING SALT .- A patent has been granted to Mr. G. Ellins, of Droitwich, Worcestershire, for improvements in apparatus for manufacturing salt; first, in the application of a current or currents of heated air to act beneath the bottom of the pans, to communicate additional heat to the hot brine therein, such currents being forced by a blowing apparatus to pass in small streams through heated iron pipes. To other purtions of the bottoms of the pans steam is applied, and the steam and air are afterwards passed into flues of an ordinary drying stove for drying salt. Secondly, in the construction of a series of rakers, for raking the salt from the bottoms of the salt pans, and accumulating the salt upon a moveable table, where the brine will drain from it, and afterwards, by a movement of the table, the salt can be transferred either into a storehouse, or a carriage, or other conveyance. Thirdly, or new apparatus for manufacturing salt; consisting of moulds or frames for receiving salt, which is to be dried in squares, and the means of filling the salt into the moulds, and also peculiar means for removing the moulds out of the pans, and afterwards transferring the squares of salt into the usual drying slove. And, fourthly, for improvements in regulating the quantities of fuel supplied for heating the aplans, so as to keep up a regular temperature, and avoid waste of fuel. The raking apparatus above mentioned, consists of rakers moved backwards and forwards in the pans by means of ropes, winding on and off aturn, placed on a shaft on each side of the pan, regulated by an endless strapfrom one to the other. One of these shafts receives motion from some prime mover, through a mitre wheel, alternately secured by asliding clutch, thereby continually reversing the motion. Mr. G. Ellins, of Droitwich, Worcestershire, for improvements in apparatus for

Original Correspondence.

BLACK-BAND AND HOT-BLAST. X

Sm,-The bursting of the water pipes in Liverpool, mentioned in your last week's Number, furnishes an excellent commentary upon the quality of Scotch iron, and upon the transcendent abilities of the manufacturers.

Black-band, as taken from the mine, contains, in alloy with its carbon, the following metalloids or earthy matters:—Lime, sand, clay, and magnesia always; baryta sometimes; and occasionally strontia. These exidised bases, when revived and alloyed with the iron of the black-band, all tend to deteriorate the quality of the iron in one way or other. Thus, magnesium confers brittleness—in fact, the brown paper characteristic, noticed in Gore's Advertiser. Calcium induces inveterate red shortness, and silicon cold and red shortness; whilst a happy admixture of these alfoys produces an iron which is both red-short and cold-short. All these exidised bases are mingled with the carbon of the black-band, so that, in fact, each excided bases is in contact, atom for atom, with the carbon requisite to devidate it. This deoxidation is partially effected during the calcination of the black-band, often performed at an elevated temperature. The masses of calcined ore are now transferred to the blast-furnace, where, lest a sufficient temperature should not be attained to metallise completely the partially deoxidised earth shut up in the calcined band, the intense heat generated by a powerful hot-blast is applied, and the result is just what we might expect—viz.: an alloy of supercarbonised iron, with four, or five, or even six other metals, each metal debasing the nature of the iron in one or more points of quality, and the number of the alloyed metals diminishing the infusibility of the alloy; in proportion to the relative qualities of each which are present. Thus the Scotch pig-iron is a fusible alloy of iron and other metals, which is found to fill readily and accurately any sand pattern, or mould, prepared for the purpose of casting; and accurately any sand pattern, or mould, prepared for the purpose of casting; and accurately any sand pattern, or mould, prepared for the purpose of casting; Black-band, as taken from the mine, contains, in alloy with its carbon

alloy of iron and other metals, which is found to fill readily and accurately any sand pattern, or mould, prepared for the purpose of casting; and, except this one good quality, it possesses not one other characteristic of good cast-iron; and even this quality may be conferred upon any kind of pig-iron, by simply adding maguesia in small quantities to the mine burden of any given blast-furnace.

Had the Scotch ironmasters possessed even the slightest knowledge of the properties and value of the blackband ironstone, which my father presented to them in the year 1801, Scotland would now have been as preminent for the excellency of its bar-iron, prepared from blackband, as it is notorious for the production of vast quantities of pig-iron, which sells usually at 40s, per ton less than the common make of England and Wales. Calcined blackband yields from 60 to 80 per cent. of iron; yet no other use has hitherto been found for this magnificent mineral than the manufacture from it of an exceedingly inferior species of cast-iron. What would be the worth to the Scotch ironmakers of a decarbonising process, which would, at an expense of 4s. 6d. per ton, convert their pig-iron into masses of tough malleable iron, fit for rolling out into finished bars, rewhich would, at an expense of 4s. 6d. per ton, convert their pig-iron in masses of tough malleable iron, fit for rolling out into finished bars, r quiring neither cutting, piling, nor re-heating? ROBERT MUSHET. Coleford, Oct. 17.

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IRON, AND ITS VARIOUS CONDITIONS.

Sir.—I did not consider myself sufficiently learned to enter into a controversy with Mr. Radley, but a rational matter-of-fact letter from Mr. R. Mushet appears in the Mining Journal of the 14th inst., to which I take the liberty of sending a brief reply, conveying my opinions on the properties and the manufacture of iron; at the same time I must state, that these conclusions have not been drawn from actual experiment, but from close observation of the processes, and reflection upon them. I agree fully with Mr. Mushet in his remarks generally, but I beg leave to state, that from prepared as he proposes—that is, brought nearly to the state of the pure metal—would be universally condemned by all blacksmiths. The iron they require for all ordinary purposes, agricultural and domestic, for small jobs about manufactories, mines, and collieries, is just such as is now produced under the denomination of merchant bar-iron—a mixture of fine fibres of pure metallic iron and cinder. Pure iron alone would be extremely difficult to work in a smith's fire, and to be turned and twisted into all the various forms required for the purposes just returned to.

The fact is, that malleable iron should, in my opinion, be formed in two distinct and separate states; one as the pure metal, for railway bars, boiler-plates, sheets, mail-rods, hoops, chain, and wire; the other as merchant bar-iron, for the use of blacksmiths. I agree with Mr. Mushet, that the period is not far distant when pig-iron will, by some cheap and easy method, be made ready for drawing through rolls, and produced at once in the various forms I have enumerated, without retining and puddling; but I conceive that these two operations, or something similar to them, are necessary for producing the sort of iron acquired for smiths, as merchant bar-iron. It is by refining and puddling that a portion of iron is converted into cinder; the metallic portion is, by its presence, divided, and these operations, in conjunction with squeezing and drawing out through rolls, cutting

COPPER SHEATHING .- No. VII.

COPPER SHEATHING.—No. VII.

SIR,—I am glad to resume the correspondence with "A Roaster Man."
An acid assay, by precipitation with iron, of 96 per cent., as quoted by "A Smelter and Refiner," would allow a sufficient quantity of alloy to render the quality of the metal dependent on its nature. If the alloy be congenial, the copper might be workable and durable; if uncongenial, unsatisfactory in both respects. I have not found so much alloy in the worst sheathing that has passed under my analyses.

On the propriety of roasting up to "blister pitch," I have no present reason for differing from "A Roaster Man;" nor do I remember to have differed from any of his opinions. It would, indeed, be with diffidence that I should do so; for, while fully appreciating the blow-pipe as a guide to the crucible, and the crucible to the furnace, I am not unaware that time, bulk, and motion, have their influence on chemical reaction, and in few cases more likely than between scorified oxide of copper and regulised sulphuret of iron. Therefore it is that I am so desirous to know what is, or may be, understood of the successive steps of the process on which must be founded our reasoning and suggestions for improvement, as stated in my last. He says, for example, that "if the granulated ore metal be well ealcined, the next melting will take away most of the iron." Let me, then, ask him, what other alloys he considers it will leave in the second regule, or "fine metal?" and how many per cent. of fine copper? In short, will he answer the questions in my last in as much detail as he may be able and at liberty to do, both to elicit the opinions of other smelters, and to give me some substantial ground for writing on—not to occupy your columns, or my own time, in building a house of cards upon crucible experiments, which the first breath of working practice may overturn?

Mr. Musiner's carburet of copper: His case of cementation is convincing, as well as interesting, though I am unwilling to believe that a proportion of carbon, sufficien

night?—J. PRIDEAUX: Phymouth, October 17.

SMELTING AND REFINING COPPER.

SMELTING AND REFINING COPPER.

Sir,—I observe in a former number of your Journal a communication from "A Roaster Man," in which he states that the refinery furnace is made for a specific purpose, and was not intended to receive any other metal than blistered copper, and that a difficulty occurs in making tough copper, from the metal being over-polled; from which observation it does appear to me that he is not well practised in the business. I can inform him, that the best copper sent out from the neighbourhood of Swansea is produced by putting the metal into the refinery in a state called "pimpled copper," and which is refined without any trouble or difficulty whatever. Among the remarks made by your correspondents on the mode of smelting and purity of metal, from the continent of Europe, I have not seen manything relative to the old establishment carried on by the Marquis De Remisa, and a company. These celebrated mines for ages, even as far back as the period of the occupation of Spain by the Moors, have produced rich ores to a vast amount; the voins are in clayslate, and are from 35 to 95 yards in width, running in a north-casterly and south-westerly direction, with a southern underlie; they are worked from 900 to 1100 yards in length, and there is an adit 55 fms, deep, which unwaters the en-

tire workings, as no excavations are carried on below. Large excavations are made longitudinally and transversely at different levels through the body of the vein, leaving pillars to support the roof, similar to colliery work. The ore is copper pyrites, giving about 7 per cent. of copper, and containing as much as 50 per cent. of sulphur. It is calcined in the open air and smelted in blast furnaces, undergoing three operations, and is refined free from sulphur. Wood only is used in smelting; the company continue planting every year, to compensate for the consumption. Stalactics of carbonate of copper are constantly forming on the roof and sides of the old workings. The water from the adit contains copper in solution, which is made to pass through wooden tanks, and precipitated in the usual mode by bars of iron.

Swelter and Refiner.

Stansea, Oct. 18.

COPPER SHEATHING.

Sir.—In your Journal of the 7th instant, I observe a remark, by "A Roaster Man," of the following purport:—" The intermittent calcinations practised in Germany have nothing to do with our's—their ores are poor, and will bear such processes; our's is a rich ore, averaging 20 per cent. of copper," &c. In reply, I beg to state, that the ores in Germany are some as rich, and, in general, average more than the Cornish. Perhaps, the "Roaster Man" means, that the pile prepared for smelting, when the rich foreign ores are mixed with it, average 20 per cent.; this, however, I much doubt. He decidedly has never seen, or, if he has, he has not sufficiently observed, the processes carried on in Germany; the ore is not subjected to more than one calcination. The regulus which comes from the blast, averaging 25 to 30 per cent. of copper, undergoes several calcinations, and is then taken to a furnace, where, without any other smelting, it is and is then taken to a furnace, where, without any other smelting, it is converted into blister copper. I shall make no further comments on this subject; nor should I have again obtruded myself, did I not think it was my duty to set those right who might otherwise be misled by your practical correspondent—the "Roaster Man."—Germanicus: Oct. 14.

SMELTING IN SPAIN.

SMELTING IN SPAIN.

Sir,—The mining company, "La Esperanza," established in St. Sebastian, proprietors of the mines of grey and green copper ore, named St. Anna, in the district of Orbaiceta, have commenced the construction of a smelting establishment for the reduction of their minerals. Lead and copper ores are very abundant in the province of Navarre; the lead is generally discovered in irregular deposits, beneath which are discovered regular veins, intermixed with rich squats and bunches of ore; the copper is, likewise, found in the same manner under veins of hepatic iron pyrites, and, in some cases, in such large quantities as to give a large profit, when solely worked for its own value, without any regard to the iron found with it. The grey copper is found in irregular veins in a silicious matrix. These mines have been worked from three to four years; and large quantities of stuff are lying at the mouths of the mines, in consequence of there having been no establishment to reduce the ores. It is believed that the erection of these works will give a considerable impulse to the exploration and working of the many mineral deposits which the province is known to contain, and that others will be subsequently established at convenient points for the reduction of those ores of lead and copper which have already been discovered and partially worked in other parts of the province.—C.: Regent's Park, Oct. 16.

of the province.—C.: Regent's Park, Oct. 16.

Sir.—It is well known that, in mines containing lodes of magnetic iron pyrites, the dial is not to be depended upon. It is also clear that, as long as the component parts of the lode are not known, or a certain knowledge is attained how the magnetic power is divided, and what changes it undergoes, it is impossible to trust with any security to the guidance of the dial, when a correct and accurate measurement is required. Some years since, when dialling at the silver mines at Kongsborg, I hit npon a plan which I believe will secure diallers from the variation of the compass. The German dialling (Markscheideri), which is generally used in our mines, is done with the help of a line and dial, to determine the situation of a given system of points, on which the form and dimensions of a lode or mine can be judged, and subsequently laid on paper. Each point is determined in relation to a foregoing one, the situation of which is already known. These points, from which the measurement is taken, or from whence one or several points are determined, I shall call stations. When the variation is known at all the stations, it is not difficult to find the truth in the appearance of the needle at each of them. All the observations with the dial in one and the same place have the same fault. In what manner the variation at the following station is related to the preceding one can be seen when the line is tightened between the two, first by observing its direction with the first point and, as near as possible, with the next, and comparing these observations with each other. The difference between this, and the difference between the variation of both places, is naturally one and the same. In this manner you can proceed with the measurement, and determine the variation from station to station through the whole mine. If the variation is known in one of the stations, with a proper comparison of the changes that have been observed, it is easy to determine the others. To those who understa

fastened afterwards to p and q, when an observation of the direction is taken. By this means, it is clear that the difference between these observations is the difference between the variation of both -A Sexe: Kongsberg, Oct. 5.

THE BLAENAVON IRON COMPANY AND ITS PROSPECTS.

THE BLAENAVON IRON COMPANY AND ITS PROSPECTS.

Sir.—Rely upon it, you do "the State some service" by the insertion of letters on this unfortunate concern. Allow me, Sir, a small amount of space for a few observations thereon. It appears that, after four years of unparalleled success in the iron trade, this company, possessed of one of the best mineral properties in the kingdom, is well nigh insolvent. The mineral agent bears down upon the furnace manager; and, if left alone, we should have the "Kilkenny cats" over again. My version of the awful state in which this concern is placed is this—the absurdities of a board of directors. The present manager (Mr. Johnson) is a gentleman who has acquired his knowledge by dear-bought experience; and this, Mr. Editor, is the best sort of experience. He is quick, intelligent, firm with those under him, indefatigable in his daily duties, and never thinks his work too hard, or the day too long. I contend, then, that here is a manager with all the requisites combined. How comes it, then, that no better results are produced? I will tell you. The one-half, or more, of the manager's time is uselessly spent in studying and writing out reports, furnishing accounts, travelling to and fro to Abergavenny to meet "your directors;" and, when he has laid out a certain course of action that he feels will be of benefit to the company, he is there thwarted by the wisdom of a board of empty-headed rulers. The panacea for all the miseries and wretched state of the concern is coke ovens. A saving will be effected thereby, no doubt; but has it ever entered into the heads of that sapient body—"your directors"—that the fall in the prices of iron has been at least double the amount per ton of the whole cost of coals consumed in the blast-furnaces?

As to the trio of directors, Messrs. Jones, West, and Wheeley, they are

least double the amount per ton of the whole cost of coals consumed in the blast-furnaces?

As to the trio of directors, Messrs. Jones, West, and Wheeley, they are three highly-respectable and honorable gentlemen as any in Wales, and, when this is said of them, no more remains. Three more unfit for the duties could not be selected. The consequence must be, that the manager will be more bothered than ever, and the difficulties of the company will increase. There is the 80,000£, and the snug, hitherto suppressed, 120,000£, necessary to be found before, under any management, the concern can go on. Now, Sir, supposing this difficulty got over, I would suggest that the company should state plainly to Mr. Johnson, that to him was left the sole conduct of the concern, to do with it as he deemed best. That he should meet the company half-yearly, with accounts daly audited and his report. If anything is to save the concern, in my opinion, that is the course. But, Sir, capital cannot be found to carry on; therefore all other effort is vain. The shareholders have, doubtless, had to pay for the recent reports on the works, &c. Why are these all-important documents suppressed? The inference is that, if produced, there would be an end to the small hopes remaining of getting the 2£ 10s, per share paid up. The longer the company go on the deeper in the mire they will get; and the course for pradent men to adopt would be, that of at once winding up the

concern, selling the same, and pocket the small amount of receipts there-from, and have done with it. Joint stock management in iron works never yet succeeded; and men well-informed on such matters say it never will.—Cymer: Oct. 19.

IMPROVEMENTS IN THE GALVANIC BATTERY.

SIR,—We are continually reading in your valuable Journal, and other scientific publications, descriptions of new inventions and pretended improvements, which, on investigation, turn out to be either of no earthly utility, or, if they are useful, in numerous cases do we find that they are mere copies, or modifications, of other people's discoveries, whose scientific credit, as well as interest, are too often thus fliched from them. Such are the improvements (?) alluded to by "Steam," of Dudley, in two or three of your past Numbers; and, in your last, there is a notice of the Rev. Dr. Callan, Professor of Natural Philosophy in Maynooth College, having made an important discovery in galvanism—viz: that common cast-iron is greatly superior as a negative pole even to platina; and that a battery of such material, with the usual positive poles, is much more powerful than Grove's or Wollaston's, and, of course, of any hitherto constructed. Now, Sir, Mr. Davidson, of Aberdeen, long previous to 1942, had employed iron as the negative metal in his batteries, by which he endeavoured to establish electro-magnetism as a motive-power, and in which he so far succeeded as to propel a locomotive, loaded with six tons, at the rate of four miles an hour. In the latter part of that year, Mr. Davidson exhibited a circular model of a railway, with an electro-magnetic locomotive engine, also a turning latthe, a printing-press, and saw-mills, propelled by the same agency. The railway was about 12 ft. in diameter, and the motion was constant, regular, and effective, so far as to prove the practicability of the force employed, could means have been devised to obtain sufficient power by increase in the size and number of the cells of the battery with sufficient economy. It has often surprised me that, since Mr. Davidson's exhibition, we have heard scarcely anything of galvanism as a motive-power, and it would appear as if the scientific world had given up all investigation on the subject. Perhaps, Mr. Editor, these few remarks may elicit knowledge, as well as that of the author of the paragraph, as I should imagine the doctor of too independent and liberal a mind to wish the public to believe he claims the credit of a discovery which really belongs to another, and that made years ago. other, and that made years ago. Clerkenwell, Oct. 17.

EARTHENWARE PIPING.

EARTHENWARE PIPING.

Sin,—Might I request you would inform me whether clay pipes have, in any case, been used for the conveyance and distribution of water under pressure; we have proved the pipes to stand a pressure of 400 feet, but the difficulty is in jointing them. In a recent number of the Mining Journal I observed a very ingenious mode of jointing clay tubes for protecting the wires of the electric telegraph, and it struck me, that by some similar expedient, the object I have in view might be attained, which would allow clay to be substituted for iron pipes, in the conveyance of fluids, so as not only to lessen the cost, but to employ a material far better suited in many respects for such a purpose. It occurred to me that from the extensive connection of your Journal with scientific engineers, it might be in your power to furnish me with some information on this subject, which I have, therefore, taken the liberty of requesting. P. W. K. Drummellar, Ayr, N.B., Oct. 16.

[We are not aware of clay, or earthen, pipes being employed for the con-

[We are not aware of clay, or earthen, pipes being employed for the conveyance of water under pressure, or in any other way than for drainage, nor de we think they would stand sufficient pressure. If pipes can be obtained sufficiently strong, Mr. Whishaw's joint to his multitubular pipes would be the most appropriate. Perhaps some of our correspondents will reply in our next.]

EMPLOYMENT FOR THE LABOURING POPULATION OF IRELAND.

the most appropriate. Perhaps some of our correspondents will reply in our next.]

EMPLOYMENT FOR THE LABOURING POPULATION of IRELAND.

Sirs,—I have lately remarked with much pleasure two or three notices on the use and advantages of peat and peat charcoal for domestic, metallurgical, and manufacturing purposes, in your valuable columns, and am also happy to observe an advertisement of a new company for the amelioration of the state of the peasantry of Ireland, by employing them in digging and converting the uncultivable bogs of Ireland into a valuable and profitable article of commerce, and reclaiming the land beneath for purposes of agriculture. The condition of Ireland at the present moment is an anomalous one—possessing all the elements of prosperity in a high degree, rich in metallic mineral, with a material for reducing it of a most superior description in inexhaustible profusion; blest with soils capable of producing the various fruits of agriculture in teening abundance, and with water-power sufficient to set in motion the entire machinery of Europe, we find trade and commerce at a standstill, the peasantry in a state of semi-barbarism and revolt, and the entire community split up into factions, apparently without either of them knowing their precise aim or end. The great and first object to change this unhappy state of things, must be the employment of the labouring population; and to no better, or more immediately profitable, labour can their physical energies be turned than in the preparation of peat, and thus opening out new agricultural districts which have hitherto been barren unpeopled wastes. The value of peat charcoal as a fuel for smelting iron ore, as well as for subsequent working of the metal in the forge, is now well known; its entire freedom from sulplur and other impurities, to which coal and coke are more or less liable, renders the metal produced by it of the very best quality; and to the smelting with peat and wood charcoal must be attributed the superiority of Swedish and Russian iro

THE COPPER COINAGE.

SIE,—Some time since, a correspondent in the Mining Journal suggested that the Government should immediately proceed to the issue of a new copper coinage, to the amount of 1,000,000L sterling, for the purpose of giving an impetus to the copper trade, and, consequently, benefitting the mining interest of Cornwall. I would recommend it also on such grounds, but there are other considerations which would render such measure desirable. There are at present in circulation large numbers of half-worn, battered, defaced, and spurious copper coins; and it has long been considered a desideratum to decimalise our coinage, and thus render been considered a desideratum to decimalise our collage, and thus render much greater facilities in calculations and in trade than exists in its present irregular and unsatisfactory proportions. This might be most easily effected by degrees, without putting the Government to any particular inconvenience, or requiring more than the usual exertion by the officials at the Mint. By the last current coinage, 1846, 1 lb. of copper, which cost in the market under 9d. per lb., is coined into about 24 pence—a pretty decent tax on the community, to cover the expense of coinage. Let the whole of the opper coin in circulation be called in, and exchanged for a new issue, as, I believe, the first step to a decimalised coinage is being taken, and that an issue of 2s, pieces will soon take place. To follow up this measure, let a copper coinage be struck, still called pence, halfpence, and farthings, but of a weight in such proportion to the market price of copper (less expense of coinage) as would make 10 pence equal to 1s., 20 pence to a 2s piece, and 10 of such 2s, pieces being equal to one sovereign; the latter would then represent the value of 200 copper pence. This would be a most easy step towards this mush-to-be-deaired end; sixpences and half-crowns might pass as usual, as they would still represent their respective worths; our copper circulation would be creditable to us as a nation, and any improvements might be followed out at leisure.

While on this subject, allow me to introduce a phan suggested by a gentleman connected with the assay and swelting of metals, which, although certainly more perfect than the above, would require so sudden a change much greater facilities in calculations and in trade than exi

in the whole arrangements at the Mint, and a system so difficult for the population at once to adopt, that I think it would not be so desirable as mine. He proposes that the gold sovereign, or pound, be the standard coin—that a coin, of an alloy of gold and silver, be issued, called a deca, value 10th of a pound—that a coin, of an alloy of gold, silver, and copper, be issued, called a centa, value 10th of a pound—and that a coin of copper be issued, called a milla, value 10th part of a pound. By this system, we should have—10 millas = 1 centa; 10 centas (100 millas) = 1 deca; 10 decas (1000 millas) = 11. The milla would thus be of the value of rather less than 1d., the centa about 21d., and the deca 2s. ss than dd., the centa about 2 d., and the deca 2s.

Cheapside, Oct. 11,

THE COPPER AND SMELTING TRADES.

Sir.—From the numerous remarks which have been made in your Journal of late, it is evident that the subject of the copper trade is attracting considerable attention; and, therefore, a few details of its history may not be uninteresting to your readers. In the course of the observations which I wish to make, I shall have occasion to refer also to the relative richness of the mineral districts of England and Ireland, and, perhaps, also of Australasia, from whence the copper ore is principally obtained, without forgetting the productiveness of the mines of Cuba and Chii.

I have no doubt your readers are aware that it was the mineral riches

asia, from whence the copper of the mines of Cuba and Chili.

I have no doubt your readers are aware that it was the mineral riches of the south-west coast of Britain which first induced foreigners to trade with us. But, at that time, tin appears to have been the principal, or the only, motal which was known to exist in this country. Indeed, authorities are in stating that the English copper mines were scarcely worked prior

The following table shows the quantity of copper ores sold in Cornwall, the produce, standard, and the amount realised in each year, from 1729 to the 30th June, 1848, inclusive. The principal portion of this interesting statement has been kindly furnished me by a friend, in whose ability and correctness I place full reliance. Neither the copper nor produce of the first five years is to be obtained, and not having the amount of money for the first 15 years, the standards cannot be ascertained. Up to the year 1832, inclusive, the return is made up to the 31st of Dec. in each year; and, after that date, I am indebted for my facts to "Gryll's Annual Mining Sheet," which are made up to the 30th of June in each year:—

Particulars of Copper Ores Sold in Cornwall, between the years 1729 and 1848.

Tear		Copper			Cop								Produ	ce.	Ste	indi	ard
	rois 2	Tons		Ton	6 CHD	l, q	r.u	18.	£		d.				£	8.	d
1729					-	-			100	-			-			-	-
1730	***				-	-							-			_	-
1781					-	-				-			-	****		_	-
1732	***				-	-			1117	-			-			-	-
1733					100	-		***	Is home	-			Defe.			-	-
1764						3			mark to 5	-		****	112			-	-
1765	***						14			-		** **	118			-	-
1766									TOT OF	-		****	114			-	-
767						- 6	29	****	Total Land	-			104			-	-
1768	****					1	- 6		-	-			101		Link	-	
1769	****					3			-	-		****	104			4	-
770							18		States -	-			104		177	-	T.
771						1			10210	-			201		OHIL		-1
772		27,018		3,060	18	2	25		1000 17	-			114		1100	-	-
773		27,654		3,155	1	0	24		-	-		****	11		,	_	-
1	The	interva	ls fro	m 1733	to 1	76	i. a	nd fr	om 1773	to	1800	, can	not be	obtai	ned	1	
		55,981	****	8,187	0	3	7				0		91				
801		56,611		6,267	18		10		476,313		0		94		133	3	0
		53,937		5,228	15				445,09					****	117	5	0
				5,615	16		21				0		9#	****		18	0
				5,374	18	ĭ	20					****	94		133	0	0
		78,452		6,234	5	ò	6	1111				****	83		136	5	0
		79,269		6,863			13	****	862,410				74		169	16	0
		71,694		6,716	13				730,84				8	****	138	5	0
		67,867	****	6,795	13	2	26 25	** **					9#			0	0
		76,245	** **	6,821	13	î	19	****	495,302		6	** **	10		100	7	0
		66,048		5,682	19	î	27		770,028 570,038			****	81		143	12	0
		66,786	****	6,141	13	3	7				0	****		** **	132	5	0
		71,547	****	6,720	7	2	4	****				****	91		120	13	0
		74,047		6,918	3	0	6		549,665				94		111	1	0
		74,322	0000	6,369	13	3	7	1211	594,345			****	91		115	.7	0
		78,483		6,525	6		25		627,501			****	84		130	12	0
		77,334		6,697	4						-	****	81		117	16	0
		76,701	****	6,498	9			** **			0	****	84	****	98	13	0
	ia.	86,174		6,849	7	1	10	****			6		8		108	10	0
		88,786	****	6,804	9	9	7	** **			- 8		7			15	0
		91,473		7,508	ő		26		623,595		6		74			10	0
		98,426	****	8,514	19		12		602,441		0		84			15	0
		00,364		8,569	18		10		605,968				84		103	0	0
		97,017	****	7,730	2	1	7	****			6		8			14	0
					9		19		605,088				8			16	0
			****	8,004	6		20		636,741			** *	24	****		13	0
				9,767	17	2		414					78			17	0
		31,876	** **	10,440	9	- 5	7		708,268		7	****	8		107	0	0
				9,447		0			783,818		6	** **	71		109	16	0
			****		19	0	8		714,999		6	** **	7		112	0	0
		30,449		10,292	13				754,904		0		74			10	0
			10.50	11,554	18	0	5	****	802,979		0		8		103	3	0
		37,893 36,719		11,836	9	0	7		798,308	5	6		84		99	9	0
		40.719		11,491	13	3	12		933,131	17	0		82		105	4	0

40	- Doddowy	and	are ma	de u	ıp t	o ti	ie 30t	h of Jun	ė in	each year	ar.	11217	7741	10		
1833	138,300	****	11,185	7	0	0		858,708	10	0	8	1.000	110	10	0	
1834	143,296		11,224	19	- 3	27		887,909	-0	0	72		114	4	0	
1835	150,617		12,271	14	1	-1		893,402	15	0	84				0	
1836	140,981		11,639	11	.0	. 0	44.66	957,759	- 8	6	81		115	12	0	
1837	140,758		10,823	. 5	-1	26		908,613	15	0		****			0	
1838	145,688		11,527	4	1	17		857,779	11	0	71	****			0	
1839	159,531		12,450	18	1	24		932,297	12	6	74				0	
1840	147,266		11,037	16	3	. 1		792,758	3	6	74				0	
1841	135,090		9,987	3	1	23		819,949	2	0	72		119	6	0	
1849	154,180		9,896	3	0	15		822,870	12	0	71	****	120	16	0	
1843	153,668		10,926	-1	0	6		804,445	19	0	74		110	1	0	
1844	152,667		11,246	14	1	20		815,246	9	6	74		109	17	0	
1848	157,000		19,239	3	3	11		835,350	19	6	72		103	10	9	
1846	158,913		19,447	16	1	16		886,785	-1	6	74				0	
1847	148,674		11,966	8	0	18		830,739	9	0	81				0	
BAR	155.616	****	12.869	19	- 1	16	Ser. O	825 080	9	6	81	100000			ñ	

From this it will be observed that, within the past half century, the yield

has increased nearly 200 per cent.

Besides the produce of British mines, considerable quantities come from Cuba, Chili, and Australia. Copper mines exist in Germany, Sweden, and Siberia, and, to some extent, also in France, Spain, Hungary, and Norway. The principal English mines are in Cornwall and Devon, but veins are also worked in the counties of Anglesca, Stafford, &c. "The copper ores most usually found, and which alone become practically of importance," says Kane, in his Industrial Resources of Iroland, "are three in number:—

Kane, in his Industrial Resources of Ironana, and since in hands, green and blue).—The Green, or malachite, is not unusual in mines, but occurs only in small quantities. It is very rich in metal, and very easily worked; it consists of carbonic acid, water, and oxide of copper, in the following Oxide of copper 72.07

Water	8.11=100
It hence yields 57.7 per cent. of copper. than the green—it is termed "azurite.".	The blue carbonate is still rarer Its composition is—
Carbonie acid	25:43

And it yields 55.5 per cent of copper.

"2. The Subsulphurer of Copper (Grey Copper Ore).—This ore is sometimes found very abundantly, and is the most valuable of all the ores of copper. More commonly, however, it is only found in small pieces, mixed with the ordinary ore. It consists of—

"3. The Ordinary, or Yellow, Copper Ore (Copper Prrites)

—This mineral, known by its brilliant golden yellow colour, is a double sulphuret of iron and copper, and contains, when pure—

I have thought it right, Mr. Editor, to give you this extract from a work of such acknowledged ability, and which has deservedly acquired a great reputation. In the English mines it is the copper pyrites which form the material produce; and the average produce of the copper mines of Cornwall is about 8 per cent. You will observe, that it contains a great quantity of sulphur and iron; but I shall have to draw your attention to this at another stage of my communication.

Copper is auctonsively used for many highly important purposes: it ranks next to iron in real commercial value. Its principal uses are for sheathing the bottoms of vessels, for boilers, and a great variety of implements and utensils. Alloyed with zine, it forms brass and pinchbeck; with tin, bell-metal, and bronze; with tin and silver, speculum metal; and with tin and mokel, the now common compound argentine, or German silver.—

All these alloys (adds an able writer) are of infinite use, entering into

the fabrication of almost every species of machinery, implement, utensil, and ornament."

The principal copper mines of Ireland, according to Kane, are those in the Wicklow, Waterford, South-Western, and Tipperary districts; and also those in the clay-slate, north of Dublin. He says—"The line of the excavations of the works in Connerree and Tigrony (in the Wicklow district) extended, in 1819, apwards of 1000 fathoms. At various depths in the mass of the clay-slate occur beds of, what is technically termed, "soft ground," which consists of decomposed state, of various tints, abounding in particles of pyrites of iron, and sometimes copper and arsenic, and usually accompanied by a considerable body of greyish or yellowish-white clay. When brought to the surface, and exposed to the action of the air, these bodies rapidly decompose, and absorbing oxygen, form alum, sulphate of iron, and sulphate of copper. A similar decomposition takes place under ground, and hence the drainage water of the district contains a very sensible quantity of copper, which has been, and indeed is, economised by conveying the water, as well from the lower as from the npper mines, into tanks, where the muddy particles are allowed to subside. The clean water is then run into pits, containing scrap iron, which causes the precipitation of the copper, and dissolves in its place. An idea of the quantity of copper thus saved from waste may be formed from the fact, that, during Mr. Weavor's management, there were 442½ tons of impure precipitated copper sold—the value of which was 12l. 12s. per ton. The quantity of iron consumed was 429 tons 14 cwts."

This shows what economy will do, and is an example to those engaged

This shows what economy will do, and is an example to those engaged in mining in other districts—particularly at present, when so much is said of the injurious effects of the reduction of the duty on copper ore, it behaves all mining adventurers to turn their attention to any improvement in their workings. In the 12 years ending 1799, it appears that the mines of Cronebane, in the same district, yielded 7593 tons of ore, containing 9 per cent of copper; and in the 12 years ending 1811, the produce fell to 1934% tons, containing only 5% per cent. of copper. In 1836, the total quantity of ore returned from the mines, in the Wicklow district, according to the Swansea sales, and the notices published in the Mining Journal, was 11,813 tons; in 1840 it was 6447 tons; and in 1843 it was 3227 tons. In 1836 the average price per ton was 41,148. 6d.; in 1840 it was 31,48. 6d.; and in 1843 it was 44.

From this it would appear that the produce of the mines had fallen off considerably, but such is really not the case. The returns above stated are the sales at Swansea—" But," says Mr. Kane, to whose excellent work I am indebted for most of these facts, "such is not actually the case; on the contrary, the activity of industry in those mines, as well as the profits to their undertakers, is, as I understand, steadily on the increase." The fact is "owing to the copper being now extensively smelted in the neighbourhood of Liverpool, and also to the poorer ores of the Wicklow district being extensively exported to various localities of chemical manufacture, where the sulphur, as well as the copper which they contain, is economised." He proves this by giving a table showing the covariant of the contains the covariant that covar From this it would appear that the produce of the mines had fallen of ture, where the sulphur, as well as the copper which they contain, is economised." He proves this by giving a table, showing the ores raised and sold from the Ballymurtagh Mine, worked by the Wicklow Copper Mining Company, for the years—

for the years—

Copper Ore. Iron Pyrites. Gross Value. Swansea. Other Ports.

of the country. I hope also to give you some details of the smelting trade its history, &c.—Plain Facts: London, Oct. 12.

BRITISH COPPER SMELTING COMPANY.

Sir,-I am glad to find that some observations, hastily thrown together, which appeared in the columns of the 23d Sept., have attracted attention, and brought forth the communication of your correspondent, "J.H.M.," whose letter tells me he has not been unmindful of passing events, although it may perchance happen that, while we have one object alone in view, his line of argument, or reasons put forward, might not accord with mine. This, however, is comparatively of little moment, if the effect be produced, which I calculate upon with some confidence. Your correspondent says, that the Act lately passed ought of itself to influence parties, and to promote the formation of a new Copper Smelting Company. On this point I have already given my opinion, for if it were an object to form an independent company, antecedent to the passing of the measure, most certain is it that such course has now become imperative, if that the mining interest of the country is to be protected. I am fully sensible that "protection" is a word which has almost been obliterated from our vocabulary, and that the only course is for the miner and mine adventurer to which appeared in the columns of the 23d Sept., have attracted attention, form an independent company, antecedent to the passing of the measure, most certain is it that such course has now become imperative, if that the mining interest of the country is to be protected. I am fully sensible that "protection" is a word which has almost been obliterated from our vocabulary, and that the only course is for the miner and mine adventurer to protect himself; no longer can he depend on the legislature, or his representative in Parliament, while the locust, or vampire, acquires additional power, and revels in the heart's blood of his victim. "J. H. M." very properly observes, that the state of the mining interest is at present bad enough; but he adds, "What must it be when the new bill is fairly in operation?" He states, that the influx of foreign ores, on which the duty has been paid, if the seven months last past, compared with the like period in 1846, is nearly 40 per cent., which I believe he would find comparatively far below the mark, if he takes the actual quantity imported in the nine months just ended. I must be excused if I cannot go the "whole hog" with your correspondent, as regards free trade, and the advantages which such a measure is calculated to produce; for he at once admits the late enactment to be destructive to the miner, if that he does not apply himself and his capital to self "protection," and endeavour to rid himself of the necessity now imposed, of placing himself and his interests in the hands of the smelters. But, Sir, this has nothing to do with the question of free trade, nor the introduction of thrashing mills and other machinery; nor is it in any way illustrated by a reference to the monopoly of the East India Company. All this I consider foreign to the purpose; the smelting trade is now as it was 10 or 20 years back; it is a monopoly confined to four or five establishments, who not only possess capital, but command the markets, whether it be in the purchase of ores at the ticketing, or the sale of the metal when smelted. Nothing but an overwhelming force, in t

availing himself of which he would have secured "protection," by rendering himself independent of the monopolists.

It is necessary, however, that, in treating on this subject, hasty conclusions should not be arrived at; and I would rather, for one, that the attempt at breaking up the monopoly should nover be made, than that it should be attended by failure. It will be seen that the sales of copper ore by public ticketing in Cornwall, during the past 12 months, amounts to upwards of 750,000L—a falling off, I am sorry to find, of some 15 or 20 per cent.; while that of the sales at Swansea are increasing in a far greater ratio, arising from the increasing returns from Australia, Cuba, and Chili, which are likely to be augmented very considerably by the late measure to which I have advarted. If, then, we take the entire produce at 2,000,000L, we have to add thereto interest on capital, plant, materials, freight, and cost of reduction, which latter alone, if set down at 15L per ton of cake copper, or (say) 30s. a ton on ore, would give at least 300,000L, to be added as additional capital, exclusive of freights and interest. As there is a necessity of having a large supply of ores on hand, not only for admixture, but from it being imperative on the smelters to take the ore off the market at the weekly ticketings, I will assume that the credit of two months on the purchase of the ores is only correspondent to, or met by, the stock in hand, and other advances. Still, it must be admitted, that capital to a large extent (say, 250,000L to 300,000L) is lying unproductive; while the credits given to the beonsumers of two, four, or six months (say, an average of three months), would, independent of the above sum, require at least half a million of floating capital, which, if divided between

the fabrication of almost every species of machinery, implement, utensil, and ornament."

The principal copper mines of Ireland, according to Kane, are those in the Wicklow, Waterford, South-Western, and Tipperary districts; and also those in the clay-slate, north of Dublin. He says—"The line of the exexuations of the works in Connerree and Tigrony (in the Wicklow district) extended, in 1819, apwards of 1000 fathoms. At various depths in the mass of the clay-slate occur beds of, what is technically termed, "soft ground," which consists of decomposed slate, of various tints, abounding in particles of pyrites of iron, and sometimes copper and arsenic, and usually accompanied by a considerable body of greyish or yellowish-white clay. When brought to the surface, and exposed to the action of the sir, these bodies rapidly decompose, and absorbing oxygen, form alum, sulphate of iron, and sulphate of copper. A similar decomposition takes place under

THE LAST QUARTER'S SALES OF COPPER ORF.

THE LAST QUARTER'S SALES OF COPPER ORF,

Sin,—I am obliged by your ready insertion of my letter, and for the explanation afforded; but I must again claim your indulgence, for, however clear may be the observations made by you, to your own mind, yet I must confess I am so stolid as not exactly to comprehend them. I am sure, Sir, that you will excuse me differing with you on any one point, as I feel well satisfied your object is ever to disseminate information; and, in so doing, your desire is naturally to confine yourself to language best eal-culated to convey results which may form ground for argument, and from which conclusions may be derived, while your readiness to give insertion to the letters of correspondents, however you may disagree with the views they may entertain on any question propounded, at once convinces me that I may reckon on your courtesy.

In directing your attention last week to the observations made in your leading article of that previous. I quoted therefrom the foliowing paragraph:—"Notwithstanding the decrease in the produce," referring to the comparative returns of the two quarters, respectively ending 30th June and the 30th Sept., "there is some room for congratulation that the sovere depreciation in price, to which we called attention in our June return of the previous three months, has not marked the quarter just expired;" and you proceed to observe, that "there is but a trifling difference in the proportion of price to produce; while, on that occasion, we had to remark a large increase in quantity, with an extensive diminution in receipts." I then ventured to put forward the grounds on which I considered you had arrived at a false conclusion; inasmuch that, from the figures adduced by you, I showed clearly, that while the ores of the preceding quarter had averaged 4l. 14s. per ton, those of the past quarter had only realised 4l. 10s.; and that, while the reduction in the quantity of ores sold at the several tickettings was only 922 tons, the amount in money was 12,160/. less, which, sales. I did, Sir, expect that, in your note of explanation, you would kindly have furnished me with the data which I had not the opportunity at the moment of referring to—viz. the relative average produce, standard, and price, for the comparative periods, in the absence of which I have ard, and price, for the comparative periods, in the absence of which I have endeavoured to make up a rough estimate, or average, which, however, I conceive will be found somewhat near the mark. You say that you "by no means intended to imply that the mining interests of Cornwall were in a prosperous state, but that, although there was still a falling off in the amount of sales and price, they were something more in proportion, and that it was nothing like so serious as the previous quarter, when, although there had been an actual increase of 4356 tons, the amount realised was less by 7442. 1s." less by 7442/. 1s."

less by 7442/. is."

Now, Sir, if I am to take the meaning which I respectfully contend your words would imply, you say there is some room for congratulation as regards the past quarter, although I think it is manifestly clear, that a loss of 8000/. has been attendant on the sales as compared with the former. The produce for the quarter ending June was 8½, with an average standard of 89/. 11s.; while the average produce for September quarter was 8½ with a standard of 85/. 13s.—thus showing an advance of one quarter in the produce, and depreciation of 3/. 18s. in the standard. I do not profess to understand the question, but I think I have advanced sufficient to show that there is something wrong; but where—I leave to you to determine; most certain is it I cannot reconcile your arguments with your show that there is something wrong; but where—I leave to you to determine; most certain is it I cannot reconcile your arguments with your figures, and, if I mistake not, there is some error in the former. If you would kindly comply with my request, it would be at once rendered clear who is in the right. Apologising for thus further intruding on your columns,

I remain yours, &c.,

[Notwithstanding our correspondent's calculations, and his endeavours to

onvince ourselves and readers, that the results of the sales of ores were more disastrous in the late than the previous quarter, we must still hold to the opi-nion expressed in our leading article of the 30th inst., that there is room for non expressed in our leading article of the soft hist, that there is room for congratulation, although "Investigator" contends there must be some error, if not for an increase, yet from the fact that the decrease in the sales of the June quarter, which the opponents of the reduction of duties on foreign ores gloomily prognosticated would be still greater and continuous, have not so turned out; for while in the quarter ending June 30th, the standard had fallen from 97. 18s. to 39. 11s., and the price from 5.8 s. to 41. 18s., respectively 7.1. 7s. and 15s., with only 1-18th difference in produce, the quarter ending Sept. 30th, has shown a depression of only 2s. 6d. per ton, certainly with the trifling increase of \(\frac{1}{2} \) in produce. The agitation of the question of the abolition of the duties on copper ores, commencing in April last, and terminating only just previous to the expiration of the past quarter, the depressed state of the metal markets, and other circumstances calculated to produce depression in the value of mining produce, was very naturally expected to cause a still greater falling off in the September than in the June quarter. If evil to a certain extent is calculated upon to almost a certainty, and its effects turn out to be much less alarming than was anticipated, there is some room for congratulation; and the trifling decrease above, as compared with what was foretold and expected, places us precisely in such position. We refer our correspondent to some statistics in a communication in another column, signed "Commentator;" and, with this explanation, must cease farther comments. We are not of those who look only on the dark side of a subject—we believe there is yet in Cornwall the germs of future and lasting prosperity, and look forward with confidence to the commencement of another year, when we hope to congratulate "Investigator" (who is evidently much better acquainted with the subject than he wishes us to believe) on the improved prospects of both miner and adventurer. lation, although " Investigator " contends there must be some error,

RETURNS OF THE COPPER MINES OF CORNWALL AND DEVON.

SIR,—My attention has been called to the subject of your leading article of last week, treating on the quarterly returns of the principal copper mines of Cornwall and Devon; but if your purpose was to show (which I presume it was) what mines had increased, and what mines had diminished, in their product, comparing the last with the preceding quarter, then, you will permit me to say, that such returns do not give the object you professed, and afford no criterion for the greater part of the mines enumerated, whether they have advanced or receded, by the comparison made—for this reason, that these sell once in two months; consequently, sometimes a mine appears in the quarter's returns to have sold once and sometimes twice. A true classification, with a view to show the increase or decrease, can only be made by taking the two quarters together, and comparing this result with that of the antocedent period—that is to say, for such mines that sell only once in two months; and even in those mines which sell every month, they have usually what they call a large sale in one month, and a small sale in the other; hence it follows here that a RETURNS OF THE COPPER MINES OF CORNWALL AND DEVON. which sell every month, they have usually what they call a large sale in one month, and a small sale in the other; hence it follows here that a quarter will not give a fair return, to institute a comparison between that period alone and another.—W. H. V.: Truro, Oct. 17.

period aione and another.—W. H. V.: Truro, Oct. 17.

[We cannot see any importance in our correspondent's objection or suggestion; it is true there may, in some cases, be ore raised at the end of a quarter, which would be sold in the next, and thus appear not to give a correct comparison; but, in a general way, such quarterly returns are perfectly capable of giving a true index of the produce of the several mines, inasmuch as we give them every quarter, specifying the number of ticketings. Our remarks last week were principally to call attention to the subject—W. H. V., and all our readers, being thus enabled to compare and judge for themselves.]

MAGNETIC NEEDLE-"ANNALES DES MINES."

Sir.—If you are aware of the exact variation of the magnetic needle, at the present time, I should feel obliged by your stating it in the next number of your Journal. Also, have the goodness to inform me how many numbers of the Annales des Mines are published yearly, and what is the annual cost.—A. B.: Neubridge, Oct. 16.

[The variation of the magnetic needle is, at the present time, 24° west. The Annales des Mines are published every two months in Paris—six numbers to a yearly volume; and may be obtained on application to M. Balliére, publisher, Regent-street. The amount of subscription is, in Paris, 20 fr. per annum; in the departments of France, 24 fr.; and in foreign parts, 28 fr. per annum.]

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WHITE'S NEW PATENT GAS.

Reference of the subscriber to, and constaut and attentive reader of, your really very interesting scientific Journal, as well as being an occasional correspondent, I am induced to trouble you on the subject of some recent squabbles, as to priority of invention of making gas from hur, scater, resin, all, and other fatty matters, &c. The disputants come into the field as though every word they uttered was new—eminently new—for the first time. First, some one from Dublin, in one of your recent Numbers, with great warmth, lays priority of claim over Mr. White. Then comes Mr. John North, of Manchester, alleging priority over Mr. White; and then, in your Journal of the week before last (7th instant), comes a furious onslaught by the said Mr. White against Mr. North, alleging total ignorance on the part of Mr. North of all knowledge of chemist, scientific attainments, or philosophy!—to the knowledge of which, Mr. S. White boldly and unblushingly lays claim. If Mr. White be a chemist, I shall show, by his letter, that he, at least, is not an ingenuous one. But I will leave Mr. White and the combatants on their very limited stage—almost, if not quite, amounting to the square of zero—to go into the more interesting discoveries and practices that have been made in now by-gone days; and I hope the information I may convey will be read with interest by those practically acquainted with gas lighting. In order that I may not be considered as arrogating for myself a position I am not entitled to, I will add, that I have read up, studied, and digested every word and work on gas lighting that I know to have been published before and since its introduction, and think, therefore, I am qualified for the task I undertake. Sir, somewhere about the year 1824, Frof. Donovan, of Dublin, a professor of chemistry, and a very talonted man, took out a patent for making gas from ware: he came to London companies, and for the purpose of being shelved; and nothing more was heard of Mr. Donovan, or his water-gus. Then comes a patent, also, I t Sin,-As a subscriber to, and constant and attentive reader of, you really very interesting scientific Journal, as well as being an occasi

gladly have given 500% had he known me three months sooner. This patent was not, however, cushioned.

The talented and eminent engineer of that day, the engineer of the Liverpool Gas-Light and Coke Company, hearing of this patent, and seeing at once the great value it would be to him—his premises literally overflowing with tar—made very advantageous terms with the patentees for liberty to use the patent. The engineer interested in the patent was encountered in the patent was encountered to the patents. Or of days and construct the patents was encountered to the patents. aged, on liberal terms, to go down and construct the necessary apparatus, &c., for decomposing the tar into gas. Great expense was gone to in erecting apparatus on the large scale, and much delay ensued; at last, in six or eight months, it was completed and set to work; and what was the result—the mountain produced a mouse—it was found, on the large scale, to be absolutely of no practical value, either as to getting rid of the tar or generating gas. What gas it produced cost double or treble what ordinary gas then cost.

generating gas. What gas it produced cost double or treble what ordinary gas then cost.

Here ended this patent; and it is quietly in-urned "in the tombs of all the Capulets." Hosts of attempts were subsequently made by individuals to decompose tur (so great a desideratum was it, and such an expense to store it), each, in their turn, concluding by the mode they adopted that they had found the philosopher's stone; but all failed, as all must fail. Gas made from water produces only hydrogen gas—a gas giving no light—and, therefore, by itself, totally unfit for illuminating purposes; but this is remedied by saturating the hydrogen with one or more doses of carbon. Professor Donovan, in his patent, provided for this; but as his patent was never used, these beautiful contrivances did not see the light. Having brought to your attention some little of what has been done in the shape of tur and water-gas and water-gas, I will now call your attention to the patent that was taken out by those time-honoured and eminent engineers—Messrs. John and Philip Taylor and Martineau, for producing that most beautiful of all discoveries—the making gas from oil, patronised.

tion to the patent that was taken out by those time-honoured and eminent engineers—Messrs. John and Philip Taylor and Martineau, for producing that most beautiful of all discoveries—the making gas from oil, patronised by all the nobility and gentry of the kingdom. This, commercially speaking, was found to be too costly in its production to enter into competition with the common cheap article of coal-gas, and, after resorting to several expedients, with the view of reducing the cost, it was found to be a rainous affair; and, after the expense of many hundreds of thousands of pounds, the whole was obliged to be abandoned—a total loss.

Then comes a host of expedients for converting resim—a cheaper, but considerably inferior, article to oil—into oil, to be again converted into gas: this shared the same fate. And then we have the late Prof. Daniel bringing his great mind to the subject, by his taking out a patent for making gas direct from resin; this, however, fared no better fate, and, in common with all the others, came to a premature and untimely end. Surely, Mr. White cannot be acquainted with these long past events, or he never would attempt, at this late day, with his puny efforts, to set the "Thames on fire." By the way, Mr. White seems very fond of water, which he calls "one of Nature's most bountiful gifts, by whose aid we traverse the land! (?) with the rapidity of an eagle's passage," &c.

It is Mr. White's penchant for water that induced me to say, if a chemist, he was not an ingenious one; for he must know that every drop of water he puts to his tar, resin, &c., deteriorates the gas, notwithstanding his wonderful contrivances (as old as himself) of chains, coke, &c. Father Tom has rather a ruse in point here, in a recipe for making whiskey punch. Father Tom says, "In making punch first put in the shugar, then put in the whiskey, and every drap of wather you put in arterwards spiles the punch "I would not willingly be so hard upon Mr. North, who I have not the pleasure of knowing; but this I know, that

COMBINED ATMOSPHERIC AND LOCOMOTIVE SYSTEM.

Sin,—If" there is nothing original about Mr. Weston," there is certainly omething very feasible in his plan of combining the atmospheric with the Sin,—If "there is nothing original about Mr. Weston," there is certainly something very feasible in his plan of combining the atmospheric with the locomotive system, and I am not aware of any one else proposing to use steam in the manner suggested by Mr. Weston in his several systems of railway propulsion. Mr. Nasmyth is the only individual, prior to Mr. Weston, that I recollect ever having proposed the direct application of steam to produce atmospheric traction; but his mode of applying it was altogether different from that of Mr. Weston's, and was admitted on all hands to be, although simple, a very extravagant or wasteful mode of employing steam. Mr. Weston's, on the contrary, appears to be not only simple, but highly economical in its working: and, as to its original cost and efficiency, no other system that I have ever heard of will bear any comparison with it; and the more one thinks about it, the more he becomes convinced that it will ultimately supplant every other system. It may truly be said of this invention, that discussion will not retard its progress, and opposition will only accelerate its development—indeed, it appears that all the publicity it has yet received its soiely attributable to this last cause. I think, therefore, that instead of Mr. Weston feeling offended in his anonymous opponent, and decliming any further notice of his communications, "unless accompanied with his proper signature," he ought rather to be thankful to him, for the opportunity he has furnished for the explanation of so important a part of his inventions, which cannet end otherwise than to Mr. Weston's advantage. Mr. Weston may also promember, that those who are the first to oppose are not always the last to approve; and he should not look upon parties who take the trouble to write about his inventions as enemies, although they may at first promounce against him; the fact of an individual without any remuneration,

devoting his time and talents to the investigation of an invention, is the best evidence that can be adduced of the great interest he feels in the subject; and to win the support of such an individual is of more importance to an inventor than the mere assent of a multitude, who care but little about such things. In support of these views, I need only refer Mr. Weston to the letter of Mr. Grafton in your last Number, from which we may fairly conclude that he has become a convert to Mr. Weston's plans, through reading the explanations given by that gentleman in former Numbers of the Mining Journal, and I will venture an opinion that those explanations have secured the approval of parties Mr. Weston little thinks of, including the projector of the submarine railway—nay, of even "Steam" himself! For I agree with the inference Mr. Grafton draws from his silence on the subject, which formerly "He could not for the soul of him understand." If the charge brought against Mr. Weston, of making use of other persons' inventions, be true, so much the better for them; for, of course Mr. Weston will have both to "acknowledge it, and pay for the use of them." But it appears that Mr. Weston "does not claim any of the constituent parts of his mechanical arrangements, or combinations, set forth in his specifications, when considered per sr, and apart from the purposes of his inventions." And we have it on high authority, "That there may be a valid patent, for a new combination of materials previously in use for the same purposes; or for a new method of applying such materials." And, again, "There are numerous instances of patents which have been granted, where the invention consisted in no more than in the use of things desards known and ection with them in a manner already known and ection with them in a manner already known and ection with the manner already known and ection with the manner already known and ections.

is sor the same purposes; or for a new method of applying such materials." And, again, "There are numerous instances of patents which have been granted, where the invention consisted in no more than in the use of things already known, and acting with them in a manner already known, and producing effects so as to be more economically or beneficially enjoyed by the public."

Mr. Weston has, undoubtedly, gathered much information from the inventions of previous patentees; and if, from examining the causes of failure in other systems, he has been enabled to found one that shall succeed, I think he is justly entitled to a large portion of the credit: but it would be highly ungenerous in him (if he could) to deny previous inventors any participation in the results attending that success. And now, Mr. Editor, I have come to the principal object I had in view for addressing you—viz.: to suggest, that if Mr. Weston's inventions for railway propulsion meet with general approval (and I am inclined to think they will), and a company is formed to carry, them out, that the unsuccessful inventors of atmospheric systems be permitted to join such company on favourable terms; and if the interests of the various patentees, whose inventions are at present before the public, could be concentrated in one object, their combined energies and intellects directed to its development, there would be some chance of a reward for their labours—whereas, if each inventor devotes himself exclusively to the development of his own particular invention, and cries down every other, the conflicting interests and evaluation of all may revenue the adortion of aither, until their inventions and cries down every other, the conflicting interests and evaluation of all may revenue the adortion of aither, until their inventions. rentor devotes himself exclusively to the development of his own particular invention, and cries down every other, the conflicting interests and
opinions of all may prevent the adoption of either, until their inventions
shall have become public property, when they will have the mortifying reflection, that for the want of union amongst themselves, they have permitted their labours to be thrown away, and its legitimate rewards to be
enjoyed by others. Let railway inventors take a lesson from railway,
boards. If "amalgamation" is desirable with the former, how much
more so is it for the latter?—R. M.: Portman-square, Oct. 17.

WHISHAW'S INSULATING PIPES.

[Specification of patent granted to Francis Whishaw, of Hampstead, Middlesex, civil ngineer, for a certain manufacture of pipes of earthenware, pottery, and glass, and of ertain applications and arrangements thereof, "Patent dated March 8, 1843.]

This invention has for its object the providing pipes, channels, or ducts, of any convenient form, snitable for the passage of the wires of electric telegraphs in a state of insulation, and other purposes, wherein a number of separate pipes, or channels, may be required; or wherein pipes of earthenware, or pottery, of great uniformity of structure, and certain combinations of pipes of these materials, and of glass, may be employed with advantage. Such being the objects in view, the invention consists—firstly, in the formation of any required number of pipes, channels, or duets, within one and the same mass or external surface of earthenware, or pottery—the shape and arrangement of such pipes, channels, or duets, and the form of the external surface, being adapted to the required circumstance—secondly, in the mode of manufacturing pipes of earthenware, or pottery, where pipes of poculiar uniformity of surface and consistency of material are required, whether as a cluster of pipes, channels, or duets, within the same mass, or to be employed singly, in the usual manner—thirdly, in certain combinations and arrangements of pipes of earthenware, pottery, and glass—fourthly, in a certain mode of combining pipes of carthenware, pottery, and glass, so as to rander them air-tight at their janctions. of any convenient form, suitable for the passage of the wires of elec-

are, pottery, and glass, so as to render them air-tight at their junctions. As regards the first part of my invention, the formation of any require miber of pipes, channels, or ducts, in one or the same mass of material as to be adapted for the insulation of the wires on an electrical tele-As regards the first part of my invention, the formation of any required number of pipes, channels, or ducts, in one or the same mass of material, so as to be adapted for the insulation of the wires on an electrical telegraph, and other purposes, may be effected, or carried into practice, in various ways. These pipes, channels, or ducts, are interstices, surrounded by the solid material of the carthenware, or pottery, and in this manner constitute a series, or cluster, of separate pipes, or channels of communication within, as it were, one main pipe, or external surface. Those pipes, or clusters of pipes, are manufactured in lengths of about two or three feet, as may be convenient, and united in the manner hereafter described. Pipes of this description may be composed, or formed, of almost any clay, or material, used in the manufacture of pottery, or tile, although the inventor prefers the ordinary Dorsetshire and Devonshire clay, or material, used in stone pottery, and well known in the trade, to which may be advantageously added crushed or powdered pottery wave. The material, used in stone pottery, and well known in the trade, to which may be advantageously added crushed or powdered pottery wave. The material, used in stone pottery, and well known in the trade, or or open cylinder, or box, suitably mounted or standards, containing the mixed clay, or material, to form the pipes, with a plate, acting as a piston, or plunger, at one end of the cylinder, which plate is made to press the clay through a suitably formed die, called or known in the trade by the name of a "dod," fixed at the reverse end of the lopen cylinder. The clay, or material, being formed into the required shape by pressure through the dod, or die, is allowed to dry; and the subsequent processes at present in use for the manufacture of carthenware pipes are proceeded with, until the length of the pipes is completed. The length of pipe may be united as at present, by means of a socket joint, formed at one end of the length, to receive the reverse

which the required curved pipe is to form the continuation. These curved pipes, when formed, are united to the straight pipes while the material is soft, in the same manner as is usual in the nanufacture of ordinary earthenware pipes. These curved, or junction pipes, may also be formed by cutting up a straight pipe in such manner, that, when placed in a curved mould, and bent to its shape, they may be joined together, and form a

mould, and bont to its shape, they may be joined together, and form a curved pipe.

The mode and machinery adopted for manufacturing the said pipes consists in the use of a cylinder, open at both ends, containing the material to be tworked, such cylinder being fixed to suitable standards, and mounted on an axis, or pivot, turning in bearings affixed to the side standards, so as to allow of its being turned down when required to receive a fresh charge of material. A plate is fixed over the cylinder, and made to pass into it (loosely fitting the interior) by means of a vertical serw, suitably actuated, the dod, or die, resting upon a ring formed at bottom of the cylinder, the plate of which forms a bottom thereto, and prevents the material passing out, except through the elongated aperture, or mouth, formed in it. Solid iron rods are affixed, in order to act as cores during the formation of the length of pipe, and to displace the portion of material forced through the elongated aperture, or mouth, of the dod, in the space which they occupy, thus forming internal exities, or channels, down the whole length of pipe, as the clay, or material is pressed forward. These reads are attached to carrying pieces, of such shape as not to interfere with the required

free passage of the material through the elongated mouth of the dod, the form of the latter tending to facilitate the passage of the material as required. To receive the pipe as it emerges from the dod, a sliding table, or rest, is provided.

form of the latter tending to lacilitate the passage of the material as required. To receive the pipe as it emerges from the dod, a sliding table, or rest, is provided.

In order to accelerate the manufacture of these pipes, a dod, or die, is used, with two or more apertures, or mouths, and sets of rods, or cores, thereby forming two or more lengths of pipes at a time, and it is obvious that, by cularging the cylinder and increasing the power for driving the plate, and the number of elongated apertures, or mouths, in the dod, the number of lengths of pipe manufactured at one time may be increased. It is also obvious that other modes of pressing, or forcing, the clay through the dod, or die, may be employed. The lengths of pipe being formed, or manufactured, are placed to dry, and afterwards straightened on the outside by means of the ordinary straightening box, made of wood, or plaster of Paris, and in halves; the internal pipes, or channels, being cleared, if necessary, by passing through them a rod, with a piece of leather, or other suitable material, at the end. These internal pipes, or channels, in the curved pipe, may be cleared when required by means of curved rods, or pieces of flexible material, as cane, gutta percha, &c., drawn through them. The lengths of pipe thus straightened have their socket, or other joint, formed upon them in the ordinary manner, and are afterwards hardened by exposure to heat, as usual, the common mode of glazing both the internal and external surface being employed. Lastly, these lengths of pipe are united together in the ordinary number, the workman only taking care to follow the register mark, or line, previously made on the outside for his guidance. Although the above relates only to pipes of circular form externally, the patentee does not intend to confine himself to such form of pipes, inasmuch as, by varying the form of the shaping part of the dod, or die, a corresponding variety of form may be given to the external surface of the pipe manufactured therein. Also, by vary

pipes already described, or of single pipes, by means of a cie. The variation of the dod, or die, now to be described cluster of pipes already described, or of single pipes, by means or a conical dod, or die. The variation of the dod, or die, now to be described from that in ordinary use, consists simply in its affording a longer space for the clay, or material, to pass through in its course of forming the length of pipe, thereby obviating the present liability to crack, sometimes produced in the pipe by the division of the particles of the clay, or material, in its passage over the bridge, or support, to the core. The clay, or material, is, by means of this improved dod, pressed firmly and compactly together, before it leaves the aperture, or mouth of the dod, in the shape of a manufactured length of pipe. The extra length of passage for the clay, or material, through the dod, or die, and the compacting pressure of the same are secured, by elongating the aperture, or mouth, and the core,

As regards the third part of the invention, consisting of certain combinations of pipes of earthenware, pottery, and glass. Lengths of clusters of pipes are combined together in any of the modes already described, or instead of employing such clusters, separate pipes are combined together in any of the modes already described, or instead of employing such clusters, separate pipes are combined together in any of the modes already described, or instead of employing such clusters, separate pipes are combined together in any of the modes already described, or instead of employing such clusters, separate pipes are combined together in any of the modes already described.

ters of pipes are comonest together the stribed, or instead of employing such clusters, separate pipes are combined by means of a collar of a cluster of pipes cementing such separate pipes into the collars, or instead of employing separate pipes of earthen ware, or pottery, separate pipes of glass are combined by means of a collar of such cluster of pipes. Also, pipes of earthenware, or pottery, of the ordinary construction are employed in combination with internal plags of a cluster of pipes of short lengths, such pipes and plugs being held together by external collars, cemented in the usual manner. In the combination last described, the plugs serve as the insulators of the wires, but it will be above that the derangement of any one wire might destroy the insulators of the variety of the strikers. obvious that the derangement of any one wire might destroy the insula-tion of the others; this mode is not so secure as by the use of the cluster of pipes firstly described.

Fourthly, this invention consists in a peculiar mode of combining pipes Fourthly, this invention consists in a peculiar mode of combining pipes of earthenware, pottery, and glass, so as to render them air-tight at the junctions, by a cement formed of asphalte, or of gutta percha, which is well adapted for the purpose. The joint thus formed will preclude the passage of air, gas, or other fluid, out of the main pipe. Pipes manufactured with these air-tight joints, as a connection for their several lengths of pipe, will be suitable for every variety of speaking telegraph, hydranlic telegraph, and for gas and water-pipes, and for other uses requiring an air-tight pipe, or communication.

for gas and water-pipes, and for other tasks and the mode emcommunication.

Having thus described the nature of the invention, and the mode employed of carrying the same into effect, the patentee desires it to be understood, that he claims, as the invention intended to be secured by the letterspatent granted to him—1. A cluster of pipes, channels, or ducts, of earthenware, or pottery, combined together in the same mass, or within the
same external surface, as above described.—2. The manufacture of pipes
of earthenware, or pottery, by means of a conical die, or dod, as above described.—3. The manufacture, combination, and arrangement, of pipes of
earthenware, pottery, or glass, with suitable collars and plugs, as above
described.—4. The combining pipes of earthenware, pottery, and glass, by
means of air-tight joints, constructed and arranged as above described. cribed.—4. The combining pipes of earthenware, pottery, and ans of air-tight joints, constructed and arranged as above de

t-office and Designs Registry, 210, Strand, Oct. 11.

INSULATION OF ELECTRIC TELEGRAPH WIRES .- There has been lately much ce in the Mechanics' Magazine on the subject of insulation, among which Mr. Hammerton proposes, as an improvement, the introduction of gatta percha tubes, fastened by zinc brackets to the posts, in lieu of the glazed earthenware. In the number for Saturday last, a Mr. Andrews states that the proposed plan is no improvement at all. In wet weather the outside surfaces of the tubes would of course become wet, and in that condition they are good conductors; a little wind would suffice to drive the rain into the enclosure of the lips, and thus a connection would be formed, not only with the earth, but with all the insulators—the proposed zinc belts would offer increased facilities of communication one with the other. It is not only common ram, but heavy mists, and a fine penetrating drizzling rain, which are the great enemies of the telegraph, and during which the gutta percha would be wet throughout their entire surfaces, while the glazed earthenware collects the water, and discharges it in drops. He proposes a glazed earthenware tube 6 or 7 inches long, and linch in diameter, perforated at the bottom with a number of small holes to within an inch of the centre on either side. In the middle of the tube he would fix a piece of earthenware in the centre, with three radii, through which the wire would pass, and at both extremities would be fixed other pieces of earthenware, pear shaped, and hollow, overlapping the tabe about 1 inch; these would escape by the holes, while the caps would form good protectors when the air was loaded with vapours.

SAPETY PRESSURE GAUGE FOR GAS-WORKS.—In the manufacture of gast there are many circumstances under which accidents are very likely to occur; which Mr. Hammerton proposes, as an improvement, the introduction of gutta

re are many circumstances under which accidents are very likely to occurs there are many circumstances under which accidents are very likely to occur; for instance, if the pipes which conduct the gas happen to become obstructed by deposits of crystalised mapthaline, or carbonate, or hypo-sulphats of ammonia, there are great dangers of explosions. Any neglect in the complicated arrangements of the valves will form an obstruction, and by preventing the free flow of the gas generated in the retorts into the gasometers, an explosion is the result. The only means at present in general use to call attention to the state of the gas in the tubes is the ordinary pressure guage, which is under many circumstances insufficient. M. Magnier communicated at the last sitting of the Paris Academy of Sciences, a plan for an apparatus for giving timely warning of any obstruction to the passage of the gas, which is simple and inexpensive. He terms it a "safety pressure gauge," and consists of a small bottle-shaped vessel, with two orifices, one of which is attached to the gliss trobe forming the ordinary pressure gauge. To the other of these orifices is attached a whistle, in such manner that whenever any obstruction or excess of pressure causes. a whistle, in such manner that whenever any obstruction or excess of pressure occurs, a loud warning is given. Water is introduced into the pressure gauge which communicates with the gas apparatus, on which the pressure is reproduced, and all the variations of pressure, to saveral inches of water, can be traced; but, if greater than ordinary, the water contained in the pressure gauge is forced into the bottle, and the gas, in escaping through the orifice, acts on the whistle, producing a sound which gives notice of danger, and which sound becomes so much louder as the pressure increases, thus giving sufficient timely notice to avoid danger. notice to avoid danger.

ROWAN'S FLUCTUATING STEAM-ENGINE SLIDE.—This slide, wh ROWAN'S LUCTUATING STRAMS ENGINE SLADE.—This slide, which can readily be adapted to any engine, is arranged for the purpose of regulating the admission of steam to the engine cylinders, according to the varying work to be performed. When the engine is brought up to the required speed, the governor balls are half extended, and when the sugine receives an accession of load, the balls of course converge, when they elevate the slide in the frame which acts upon the valve, and lifts it up, holding it longer in that position. On the contrary, when any machinery is thrown off, the balls of course immediately extend, causing the slide to shift in the other direction, and cut off the ateam somer, so that the engine adapts itself to whatever load it has to move, increasing or decreasing.

Norru British Ranway.—By the completion and opening of the great bridges over the Type and Tweed on the North British, passengers are now enabled to travel by the east coast route to Edinburgh and Glasgew without change of earnings. The train leaving Edinburgh at half-past 9 a.m., reaches York at half-past 8, and London soon after 10.

ENERAL TELEGRAPH COMPANY.—This company are now prepared to undertake the EXECUTION, by CONTRACT or OTHERWISE, of the most approved ELECTRIC, HYDRACLIC, PNEUMATIC, and MECHANICAL FELICIAR PHS.—Particulars of which may be ascertained by application at the company's temporary offices, 6, Gray's Inn-square, London.

PERANCIS WHISHAW 2. General Control of the Control o

FRANCIS WHISHAW, Concern NATHL. J. HOLMES, Managers

TIMBER PRESERVING COMPANY.—(PAYNE'S
PATENTS FOR THE PRESERVATION OF TIMBER AGAINST DRY ROT,
FIRE, RAVAGES OF WORMS, &c.
The above company are ready to ENTER into ARRANGEMENTS for the PREPARATION OF TIMBER, at any of their under-mentioned stations -viz.:
Whitehall Wharf, Westminster | Barnstaple | Guildford
Southampton | Lenn | Hartlepool |
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Barnstaple Leicester Lynn Staines

And they will erect the necessary apparatus, wherever there is a considerable quantitimber to be prepared.—Further particulars, with prices, may be obtained at the Morks, Whitehall Wharf, Cannon-row, Westminster.

DIDER'S RAILWAY BRIDGE.-TO RAILWAY COM-

PANIES - This BRIDGE has now been for 18 months in DALLY USE (having double track) on the HARLEM RAILWAY, in the State of New York, United States, he Eric Railway and the Newhaven Railway Companies have likewise adopted it. Several other bridges, for ordinary purposes, are also being constructed. The advantages of this over all other iron bridges hitherto invented, consist in the nail amount of iron required, compared with the strength obtained, in avoiding the se of any surplus weight of material, in the consequent economy of its construction, and also from its lightness, casy mode of putting together, and facility of transport, in its cultar adaptation for foreign use.

As regards economy, it can be crected at a cost not exceeding that of a WOODEN RIDGE, of equal capability.

ual capability. to be made to Mr. Moulton, the patentee, Bradford, Wilts.

ATMOSPHERIC RAILWAY .- NO LONGITU-

EWATMOSPHERIC RAILWAY.—NO LONGITUDINAL VALVE.—The CYLINDER may be constructed of CAST-IRON TUES;
f any convenient length—like the mains of gas or water pipes. Here an immense saving
f expense will be at once effected.
These TUEE's can be UNITED TOGETHER, perfectly air-tight, and a piston can
reserve, for a motive-power, as perfect a vacuum as can be made; and he further engages to
communicate this power, with little or no loss, from the inside of the cylinder to the
uside, for the PROPUSION of RAILWAY CARRIAGES, and the rails now used will
nawer well.—CAPITALISTS' ATTENTION IS CALLED TO THE ABOVE.
No attention will be given to communications, except made through some London so-

Attention will be given to communications, except made through some L of known standing in the profession. *** Address " O. L. Z.," Post-office, Battersea, near London.

JEW ATMOSPHERIC APPARATUS, OR RAILWAY NO LONGITUDINAL VALVE.

CYLINDER may be constructed of CAST-IRON TUBES, of any convenient le
the mains of gas or water pipes. Here an immense saving of expense will

—like the mains of gas or water pipes. Here an immense saving or expense with us at once effected.

These TUBES can be UNITED TOGETHER, perfectly air-tight, and a piston can be constructed to work therein — air-tight also. This accomplished, the inventor engages to communicate this power, with little or no loss, from the inside of the cylinder to the outside, for the several purposes the same may be applied to—as for the PROPULSION of RAILWAY CARRIAGES—for the raising of water to heights not limited by atmospheric pressure—and, indeed, the APPRARTUS will be FOUND AVAILABLE for very many other purposes,—CAPITALISTS' ATTENTION IS CALLED TO THE ABOVE. No attention will be given to communications, except made through some London solicitor, of known standing in the profession.

**Address "O. L. Z.," Post-office, Battersea, near London.

BRISTOL AND EXETER RAILWAY.—CALL OF FIVE

POUNDS PER SHARE—being the Fourteenth Instalment, and making, with former calls, the sum of £90 per share.

The directors of this company, under the provisions of the Act of Parliament, hereby to Notice, that the proprietors of £100 shares are required to PAY, on or before the 30th y of October next, at any of the under-mentioned banks, the sum of FIVE POUNDS each of their respective shares—viz.:

of their respective shares—vis.:

LONDON—Measurs, Glyn, Hallfax, and Co.
LIVERPOOL—The Bank of Elverpool.

MANCHESTER—Measurs, William Jones, Loyds, and Co.
BRISTOL—Measurs, Miles, Harford, and Co.
Measurs, Stuckey and Co.
The West of England and South Wales District Bank.
The National Provincial Bank.
EXETER—The Devon and Corawall Banking Company.
The West of England and South Wales District Bank.
The National Provincial Bank.
The National Provincial Bank and Co.
The West of England and South Wales District Bank.
The National Provincial Bank and Co.
The Wast of England and South Wales District Bank.
The National Provincial Bank and Co.
The Wast of England and South Wales District Bank.
The National Provincial Bank and Co.
The Bankers are instructed to charge interest, at the rate of 5 per cent. per annum, on all arrears, and to allow interest, at the same rate, on paymonts in anticipation of calls.
By Order of the directors, J. B. BADHAM, Sectetary.
Office, 30, Broad-street, Bristol, Sept. 27, 1847.

BRISTOL AND EXETER RAILWAY—THIRD SHARES —CALL of TWO POUNDS TEN SHILLINGS por THIRD SHARES—boing the ath Instalment, and making, with former calls, the sum of £27 10s. per third shared The directors of this company, under the provisions of the Acts of Parliament, hereby gire Notice, that the proprietors of Third Shares are required to PAY, on or before Monday, the 30th of October next, at any of the under-mentioned banks, the sum of TWO POUNDS TEN SHILLINGS on each of their respective Third Shares:—

POUNDS TEN SHILLINGS on each of their respective Third Shares:—
LONDON—Messra. Glyn, Halifax, Mills, and Co.
LIVERPOOL—The Bank of Liverpool.
MANCHESTER—Messra. William Jones, Loyds, and Co.
BRISTOL—Messra. Milles, Harford, and Co.
Messra. Milles, Harford, and Co.
Messra. Shilles, Harford, and Co.
Messra. Stuckey's Banking Company.
The West of England and South Wales District Bank.
EXETER—The Devon and Cornwall Banking Company.
The National Provincial Banking Company.
The West of England and South Wales District Bank.
Messra. Sanders and Co.
Who are instructed to chave interest, at 5 per cent. per annum, on all arrears, and to affice interest, at the same rule, on payments in anticipation of calls.
By order of the directors,
J. B. BADHAM, Secretary.
Office, 30, Broad-street, Bristol, Sept. 27, 1848.

A P-WELDED IRON TUBES,
W. H. RICHARDSON, Jun., and CO.,
MANUFACTURE every description of WROUGHT-IRON TUBES,
otive and Marine Bollers, Gas, Steam, and other purposes. PATENT TUBE WORKS, DARLASTON, STAFFORDSHIRE.

DATENT IMPROVEMENTS IN CHRONOMETERS WATCHES AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Cockspur-street, watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness Prince Albert, begs to acquaint the public, that the manufacture of his chronometers, watches, and clocks, is secured by three separate patents, respectively granted in 1836, 1840, 1842. Sliver lever watches, jewelled in four holes, 6 gs. each; in gold cases, trem £3 to £10 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gs. each, DENT'S PATENT DILLEDOSCOPE, or Meridian Instrument, is now ready for delivery.—Pamphlets containing a description and directions for its use 1s. each, but to customers gratis.

CAPITALISTS are INVITED to INSPECT the SECURE and PROFITABLE INVESTMENT IN HUTCHISON & CO.'S INDURATED and IMPERVIOUS STONE, Chalk, Sand, Plaster, Wood, and Carton-roof Sheeting WORKS. Paving in diamond courses, supplied at Calverly Quarry, Tunbridge Wells, at 6d, per foot super, perfectly compact and impervious. Other orders executed.—Also, at Madadwire, near Cear, France.—Chief offices, East Tomple Chambers, No. 2, Whitefriaris-street, London, where specimens and particulars may be seen.—Licenses granted also for Hutchison's Pagent SAW FRAMES. TNDER BRITISH AND FOREIGN LETTERS PATENT.

COAL MARKET, LONDON.

MONDAY.—Bate's West Harriey 15 6—Buddle's West Harriey 16 3—Chester Main 1
Dean's Primose 13 6—Hesting's Harriey 16 3—Cheyler 16 3— Agents runnes 13 6—Fasting 8 Hartey 16 3—Holywell Main 16 6—New Yanneid 14 Morth Parcy Hartley 16—Ord's Redhough 13 9—Pontop Windsor 13 9—Stewart's Hartley 16—Tamfield Moor 15 6—Tamfield Moor Butes 14—Wylam 14 6—Wall's End Bewicke and Co. 16—Bensham 16—Heaton 16—Hotspur 15 3—Killimgrowth 15 3—Percy Bensham 15 3—Eden Main 16 9—East Hetton 15 —Hetton 17 6—Haswell 18—Lambton 17 3—Shotton 18 3—Stewart's 17 9—Hudson's Hartlepool 15 6—Heigh Hall 16—Kello6 16—South Hartlepool 16 3—Trimdon 16—Benson 15—Soymour Tees 16—Tees 17 3—Whitworth 14 9—Derwentwater Hartley 16—Hartley 15 9—Nixon's Merthyr 21.—Ships at market, 164; sold, 58.

worth 14 9—Derwentwater Hartley 16—Hartley 15 9—Nixon's Merthyr 21.—Ships at market, 164; sold, 58.

WEDNESDAY.—Bate's West Hartley 16—Buddle's West Hartley 16 6—Carr's Hartley 16 6—Carr's Hartley 16 6—Chester Main 16—Dean's Primrose 13 9—Hasting's Hartley 16 6—Holywell Main 16—Londonderry Hartley 14 6—New Tanfield 14—North Percy Hartley 16—Holywell Main 16—Londonderry Hartley 14 6—New Tanfield 14—North Percy Hartley 15—West Hartley 15—Eden Msin 17—Lambton Primrose 17 3—Derwentwater Hartley 16—West Hartley 17—Eden Msin 17—Lambton 15—Gartley 15 6—Walt's End Barnard 16 3—Bowles Hos and Co. 16 9—Clarke and Co. 13—Gosforth 16 6—Heslay 16 9—Harton 16 3—Bullingworth 16 3—Northumberiand 15 9—Percy Bensham 16—Wharneline 16 8—Bullingworth 16 3—Northumberiand 15 9—Revel 19—Lambton 18 6—Morrison 16 9—Russell's Hetten 18 6—Shotton 17 3—Stewart's 19—Caradoc 17 9—Casago 17 3—Laben Hartleyool 13 3—Hengh Hall 16 9—Kallos 17—South Hartleyool 17 3—Adelaide Tees 17 9—Seymour Tees 16 9 to 17—South Durham 16 6—Tees 18 6—West Cemberth 18 3—Morrison 16 3—Morrison 16 3—North Percy Hartley 16—Onester Main 16 3—Doar Primrose 14 3—Hartleys 24 market, 126; sold, 70.

FEIDAY.—Bato's West Hartley 16—Buddle's West Hartley 16 6—Carr's Hartley 16—Onester Main 16 3—Doar Primrose 14 3—Hartleys 16—North Percy Hartley 16—West Hartley 17—Wall's End Bowicke and Co. 19—Gosforth 18 6—Hodley 19—Harton 18—Hompsur 17 9—Northumberland 17 9—Percy Bensham 16 6—Eden Main 19—Lambton Primrose 19—Hetton 20—Hawell 20—Morrison 18 5—Hussell's Hetton 20—Stewart's 30—Walt's 110—Hartley 16—Seymour Tees 19—Derwentwater Hartley 16—West Hartley 16—Seymour See 19—Derwentwater Hartley 16—West Hartley 16—Seymour 18 6—Hompsur 17 9—West Hartley 16—Seymour 18 8—Hompsur 17 9—Northumberland 17 9—Percy Bensham 16 6—Eden Main 19—Lambton Primrose 19—Hetton 20—Hawell 20—Morrison 18 5—Hussell's Hetton 20—Stewart's 30—Walt's 20—Halt's 19—Percy Bensham 16 6—Eden Main 19—Lambton Primrose 19—Hetton 20—Hawell 20—Morrison 18 5—Stepsell's Hetton 20—Stewart's 30—Walt's 20—Halt's 19—Percy Be

BRITISH SOUTHERN WHALE FISHERIES.

ounded on a "STATEMENT" (to be had on application at the undermentioned place "EXPLANATORY OF THE NECESSITY AND MEANS OF RE-ESTABLISHIN THE ABOVE IMPORTANT BRANCH OF THE NATIONAL INDUSTRY."

THE ABOVE IMPORTANT BRANCH OF THE NATIONAL INDUSTRY."
It is proposed—1. That a company be formed for re-establishing the British Southern Whale Flaheries, by prosecuting them from the Auckland Islands, under the title of the British Southern Whale Fishery Company.

2. That the sapital of the said company be £300,000, in 6000 shares of £30 each, and that power be given to augment it to an amount to be defined by the Board of Trade.

3. That when one-third of the required capital is subscribed, a board of not less than 12 directors be appointed from amongst the shareholders.

4. That the deposit be £2 10s, per share, and that this be paid at such time and place as the board of directors, when appointed, shall name.

5. That those who may record their names as shareholders be subjected to no liability until the foregoing preliminaries are millilled, and then only to the extent of their several subscriptions, as will be stipulated by the charter already promised.

6. That a Deed of Settlement, to be approved by the President of the Board of Trade, be afterwards executed by the shareholders.

7. That the instalments on the shares be called for by the board of directors as circumstances may require.

7. That the instalments on the shares becalled for by the board of directors as circumstances may require.
Mears. C. H. and G. Enderby, who are the Crown grantees of the Auckland Islands, have constituted themselves a provisional committee to receive and grant applications for shares, until the board of directors enter on their functions.
All communications and inquiries, with reference to the project, may be addressed to Messrs. Enderby, or to Mr. Preston, whom they have authorised to act provisionally as secretary in the matter, and who will be prepared to furnish all necessary information, as also forms of application for shares, at the temporary offices, 8, Crosby-square, Bishopsgate, where attendance will be given daily from 10 till 5 o'clock. Applications for shares may also be made through Messrs. Tatham, Upton, Johnson, and Co., solicitors, 20, Austinfriear.

RISH AMELIORATION SOCIETY.

IN COURSE OF BEING INCORPORATED BY ROYAL CHARTER.

Capital £500,000, in £10 shares.

The Right Hon. LORD DE MAULEY. Chairman.

Major-General DUNGAN M'LEOD, Chairman of Committee of Works.

OFFICES—2, WATERLOO-PLACE, PALL-MALL, and 6, KING WILLIAMSTREET, CITY.

For the employment of the peasantry in the preparation (by a simple patented process, the exclusive property of the society), of PEAT, FUEL, and ChiARCOAL, for Metallurgical, Manufacturing, Agricultural, and Sanitary purposes—ensuring large profits to the shareholders; and, by removing the peat, rendering the land fit for immediate cultivation.

ultivation.

Applicants for shares will not become liable, under any circumstances, for more than te amount of shares they may agree to take, as they will not be required to sign any seed until the charter shall have been granted—so limiting their liability; and nothing till be required, beyond the 1s. per share deposit, until the first station shall have proved the undertaking successful.

JAMES BLAKE, Secretary.

the undertaking auccessful.

WMSTRELLYN SLATE COMPANY.

Capital £10,000, in shares of £10 each—1000 shares. Deposit £5 per share. The responsibility of shareholders is limited to the amount of their shares. The slate trade in North Wales has, in nine cases out of ten, been found a safe and lucrative speculation for the investment of capital, through whose agency—whether emanating from conjoint or individual enterprise—the inexhaustible mineral treasures of apparently barren masses of rock and mountain ranges have been explored and turned to the account of the courageous adventurers. In this way fortunes have been made in the course of a few years—whereas the risk is small—the outlay being comparatively trifling in proportion to the extent of contributors.

From the margin of Cwmstrellyn Lake risks is small—the outlay being comparatively trifling in proportion to the extent of contributors.

From the margin of Cwmstrellyn Lake rises an immense slate rock, or, properly spearing, slate bed. With the view of testing the properties of this slaty formation, openings have been made, from which the most satisfactory results have ensend—proving to a certainty the existence of slate, of excellent quality and colour.

The reports of the engineers sent to view the place, confirm the expectations raised by the success which has attended the experiments.

It is proposed, therefore, to form a company, and raise sufficient funds for working Cwmstrellyn Slate Quarry. Favourable terms can be obtained from the proprietor—viz., a lease, for the full term of 60 years, with a royalty of th, to commence at the expiration of six years' working, on payment of £500, at the option of the company.

The advantages are—ample space on the spot—from 30 to 30 acres, if required—for the deposit of waste, immense water-power for the working machinery, and easy accesses to the shipping port of Portmadoc, distant six miles. By opening a communication with the public road (three miles from the quarry), the facilities of a tramroad would be rendered

dered available.

Any further particulars that may suggest themselves to persons disposed to take shares in the above company, can be had on application personally, or by letter, to R. M. Griffith, Esq., Bangor, North Wales, at whose office the engineer's report and surveyor's plan

STEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to CEYLON, MADRAS, CALCUTTA, EENANG, SINGAPORE, and HONG-KONG, THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th of every month; and from Suez on or about the 10th of every month.

BOMBAY.—Passengers for Bombay can proceed by this company's steamers of the 29th of the month, to Malta, thence to Alexandria by her Mojesty's steamers, and from Suez by the Hondurable East India Company's steamers.

MEDITERRANEAN.—MALTA—On the 20th and 29th of every month. Constantinople.—On the 29th of the month. ALEXANDBIA—On the 20th of the month.

SPAIN AND PORTUGAL.—Vigo, Oporto, Lisbon, Cadiz, and Gibraltar, on the 7th, 17th, and 27th of the month.

ITALY.—Genoa, Leghorn, and Civita Vecchia, occasional trips—next departure 18th of November, 1848.

For plans of the vessels, rates of passage-money, and to secure passages, and ship cargo, apply at the company's offices, No. 122, Leadenhall-street, London; and 57, High-street, Southampten.

per PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY'S STEAMERS, to INDIA and CHINA—GOODS and PARCELS, sent direct to the company's parcel office, on or before 6 r.M., on the 17th of each month, are forwarded at less cost to shippers than when sent through any intermediate channel. Cases must not exceed 112 lbs. weight each, for Aden, Ceylon, Madras, Calcutta, and China; and 40 lbs. each case for Bombay. No package for India or China can, under any circumstances, be shipped at Southampton, unless it be cleared through the Custom-house, and placed alongside the steamer by noon on the 19th of each month.

Detailed particulars can be obtained on personal application, or by writing. JOTICE TO SHIPPERS OF GOODS AND PARCELS

POURDRINIER'S PATENT SAFETY APPARATUS, for

PREVENTING ACCIDENTS IN MINES AND OTHER PLACES,

BY the ADOPTION of this INVENTION the LIVES of the WORKING MINES MAD

PRESERVED, and the PROPERTY of the MINE OWNERS PROTECTED from the
serious consequences of either of the following accidents—viz.:

1. From the men, or the load, being precipitated to the bottom of the shaft when the
rope or chain breaks: in this case the apparatus is self-acting.

2. From either the men, or load, being drawn over the pulley: in this case, also, info
apparatus is self-acting. either the men, or load, being drawn over the pulley: in this case, also, in a self-acting.

the fearful consequences to men or load of a "whirl," or run: in this case a soundly contain

the result is equally certain.

A COAL PIT, with the SAFETY APPARATUS ATTACHED to the CAGE, is daily at WORK near BURSLEM, in the STAFFORDSHIRE POTTERIES.

To inspect the apparatus, or to obtain any further information, application may be made Mr. Edward N. Fourdrinier (the patentee), Cheddleton, near Leek, Staffordshire; or Mr. Joseph Fourdrinier, 9, College-place, Camden Town, London—who are prepared GRANT LICENSES for the USE of the PATENT.

DESICCATING OR DRYING PROCESS—DAVISON DESICCATING OR DRYING PROCESS—DAVISON and SYMINGTON'S PATENT.—To MANUFACTURERS and OTHERS requiring DRYING POWER, this PROCESS has been pronounced by those who have adopted it nearly three years, "as surpassing every thing before seen or tried, for efficiency, purity, cleanliness, cheapness, expedition," and, if may be added—safety. I has already been applied to no less than 15 distinct branches of trade, with equal and most perfect success, from the drying of the thinnest paper or the most delicate fabric, to the roasting of coffee, and such like substances; in other words, generating a continuous and controllable temperature, varying from that of the atmosphere to 500° and 600°, if required, and attended with many important advantages, not obtainable by hot flues, cockles, steam, hot-water pipes, &c.
For Liceniese, and other particulars, apply to
Mr. ANGUS JENNINGS, S.

DESICCATED OR SEASONED WOOD-DAVISON

DESICCATED OR SEASONED WOOD—DAVISON and SYMINGTON'S PATENT.—For all BUILDING PURPOSES, JOINERY, CABINET-WORK, MUSICAL and other INSTRUMENTS, or wherever thoroughly SEASONED MATERIAL is required, for this and tropical climates, this PROCESS EFFECTS, in the SEASONING OF WOOD—more in weeks, than years can accomplish in the ordinary way. The gums are hardened, the fibre increased in strength, and shrinkage, as well as decay, prevented. The invention having been accurately tested, and adopted, by Her Majesty Honourable Board of Ordinance, and extensively by the leading architects and builders, in the erection of spublic and other buildings—by cabinet-makers and musical instrument-makers, amongst others, in the execution of the most expensive workmanship—the company feel themselves warranted in recommending the invention, as worthy of universal adoption, both as regards economy and efficiency.

For Licenses to use the patent, and every other information, apply to Mr. ANGUS JENNINGS, Secretary, at the offices of the company, 41, Gracechurch-street, City.

** The company have works situated near the Commercial Docks, Rotherhithe, where

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"I send, for Lord Stanley's further information, a copy of a statement of the price per load of preparing timber for building purposes.

"G. W. Hope, Esq., &c., " (Signed) "W. A. B. HAMILTON. Secretary.

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[October 21, 1848.